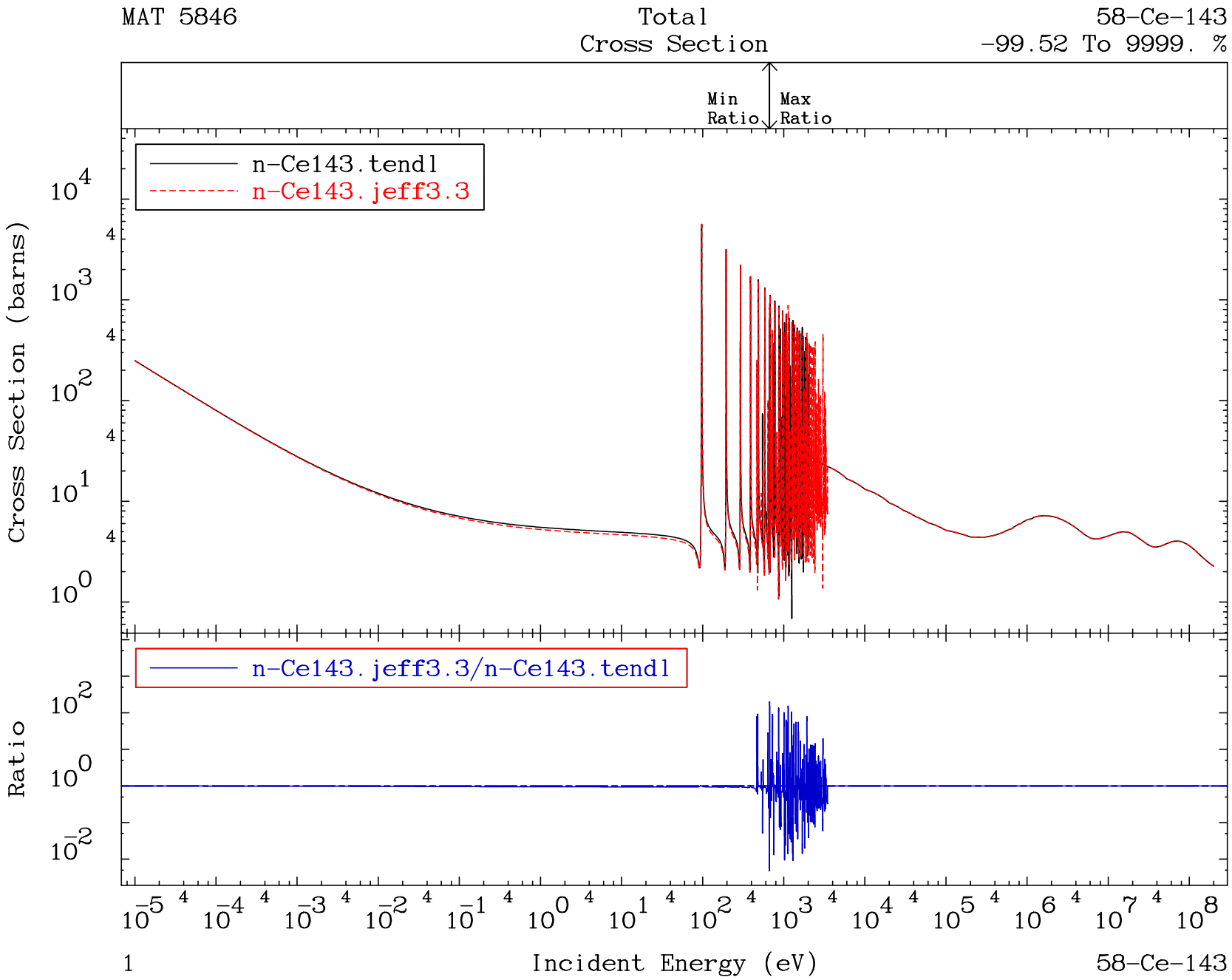
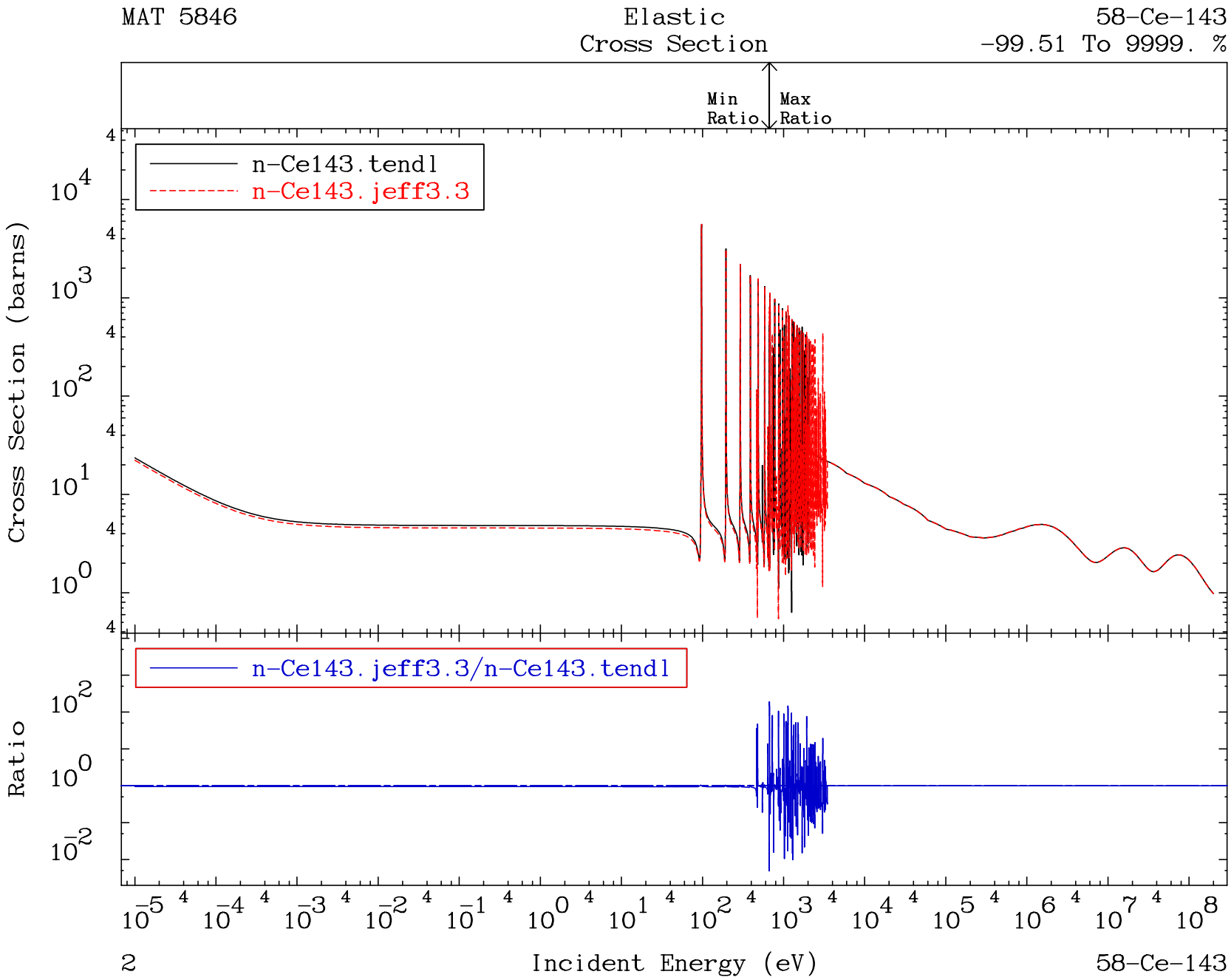
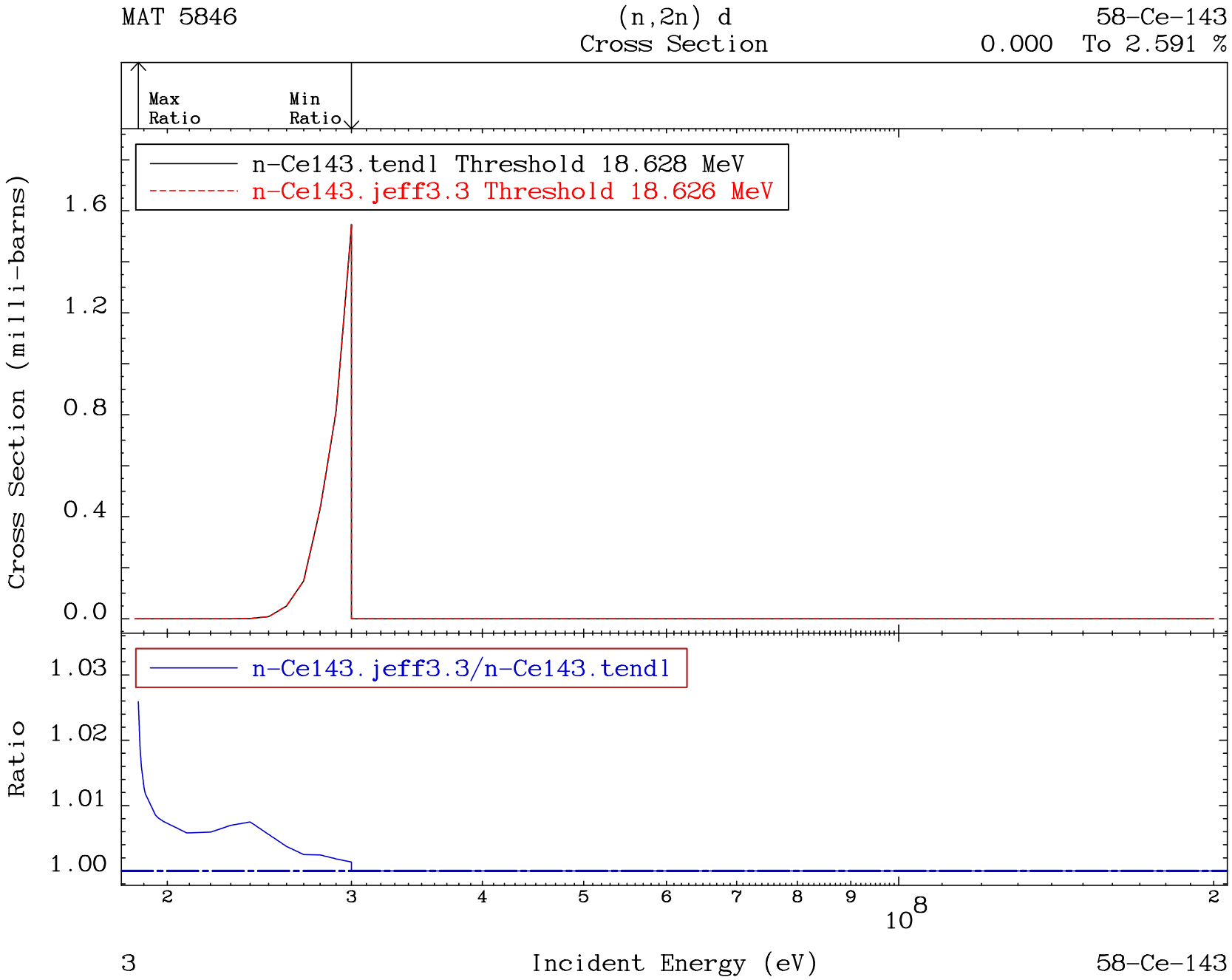
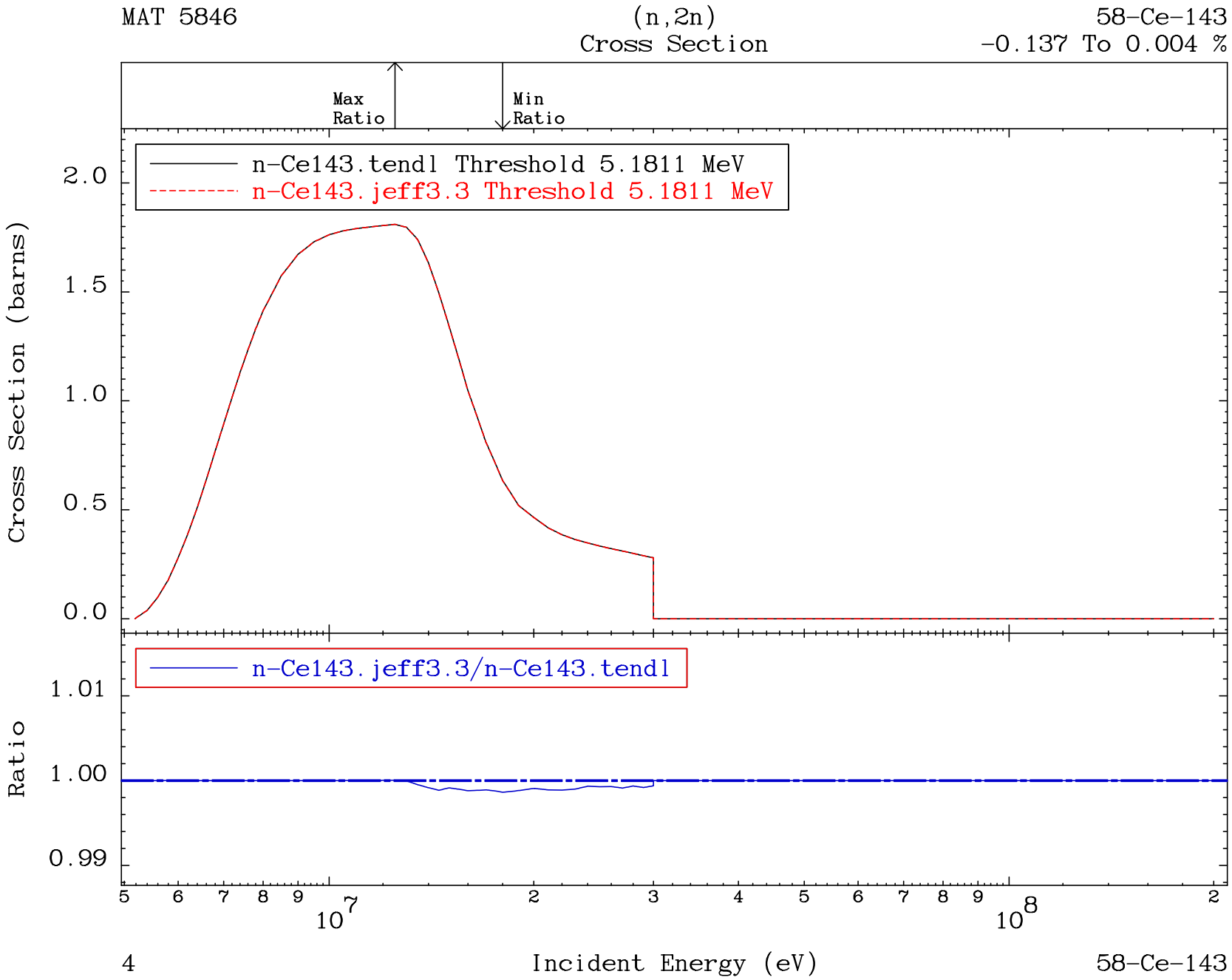
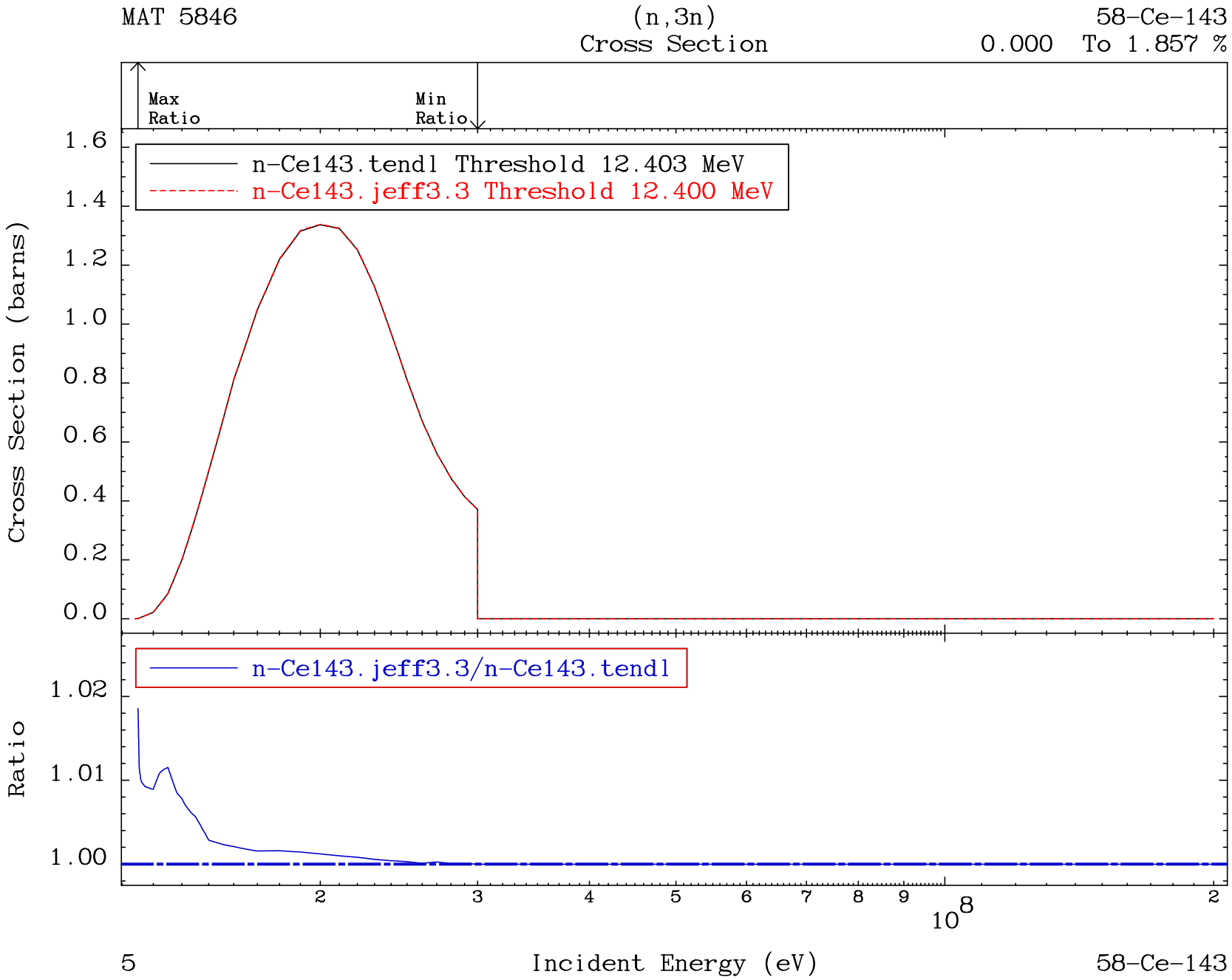
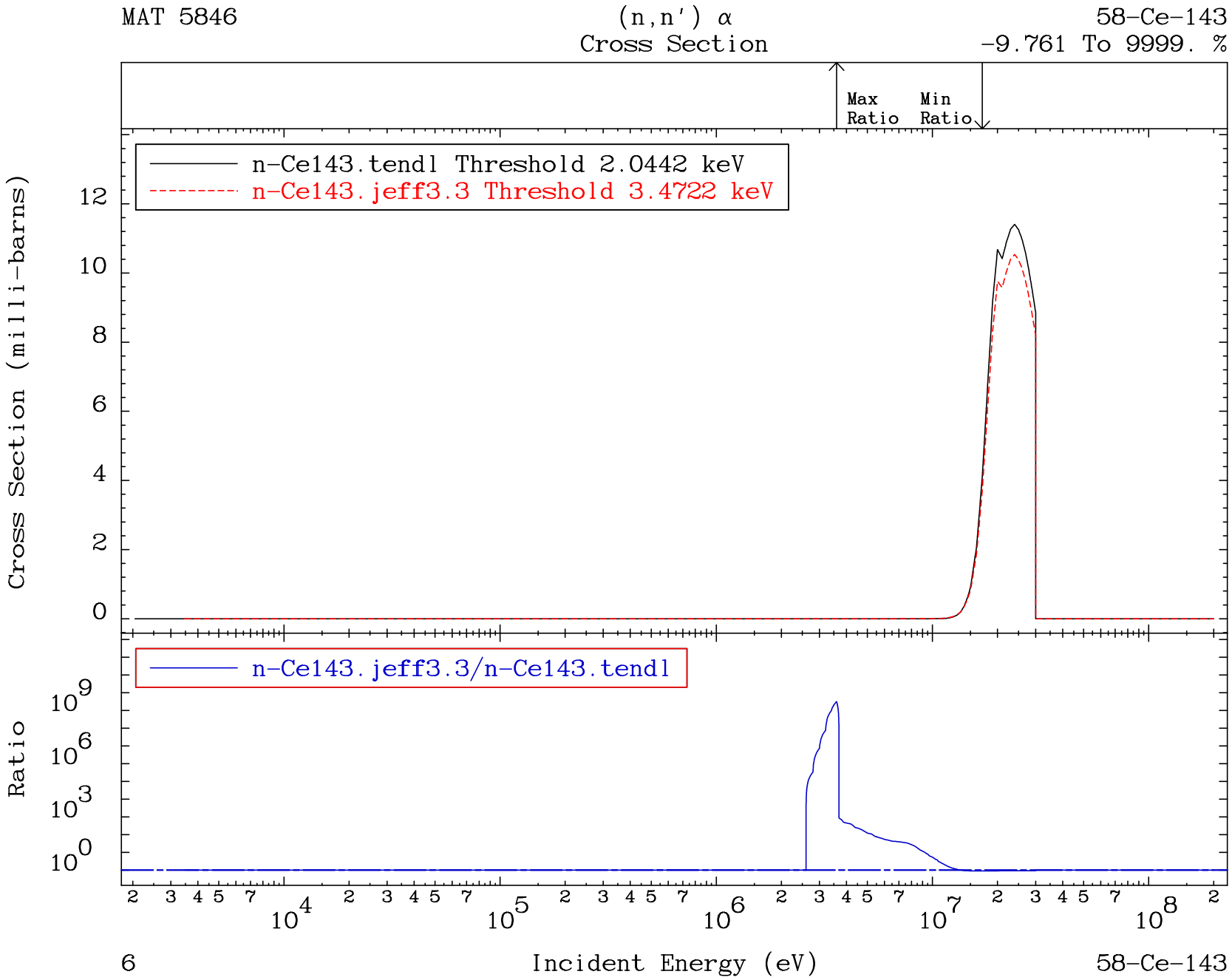

MAT 5846
Total
Cross Section
58-Ce-143
-99.52 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
1
58-Ce-143

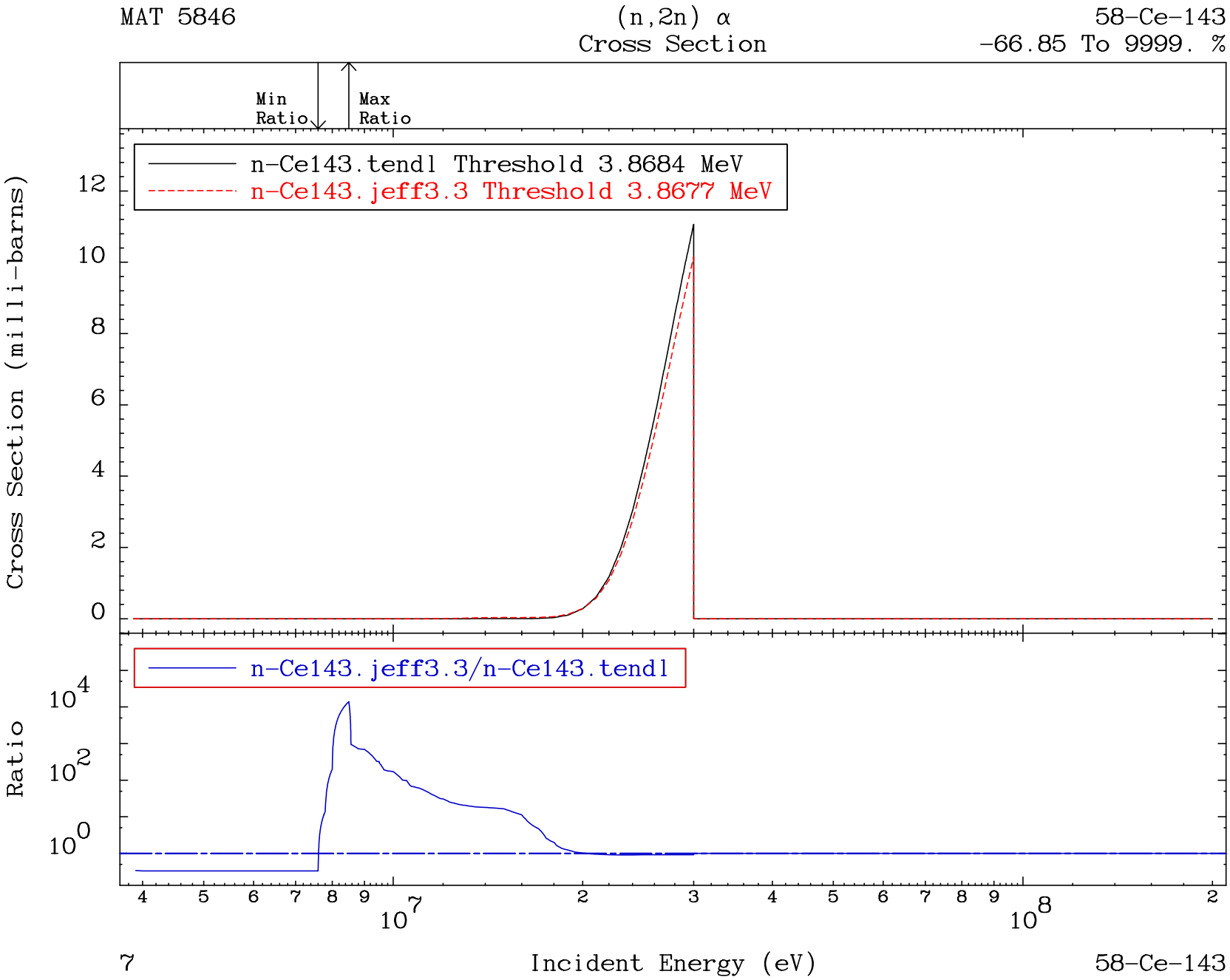

MAT 5846
Elastic
Cross Section
58-Ce-143
-99.51 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
2
58-Ce-143

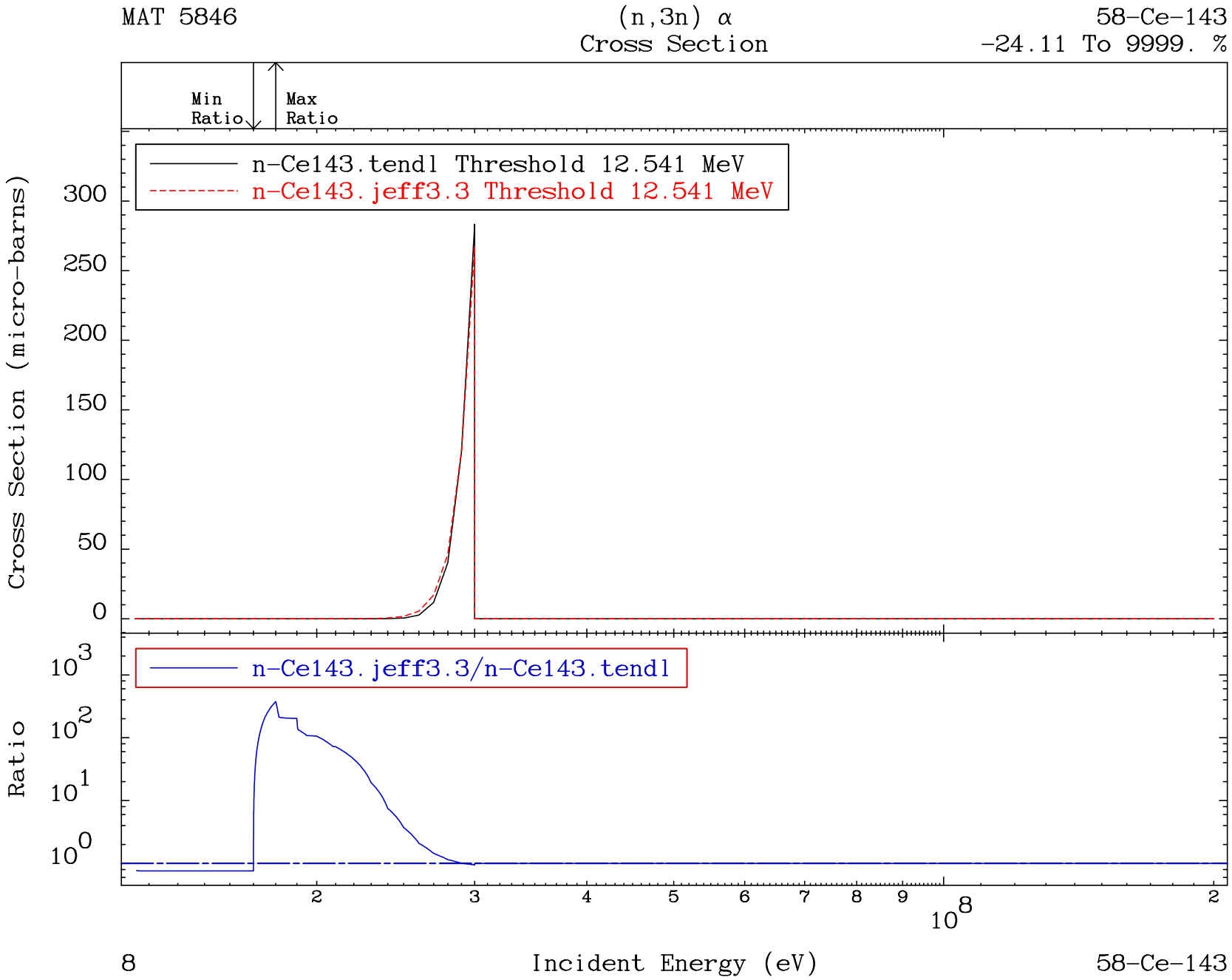

MAT 5846
(n,2n) d
Cross Section
58-Ce-143
0.000 To 2.591 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 18.628 MeV
n-Ce143.jeff3.3 Threshold 18.626 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.03
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
3
Incident Energy (eV)
58-Ce-143

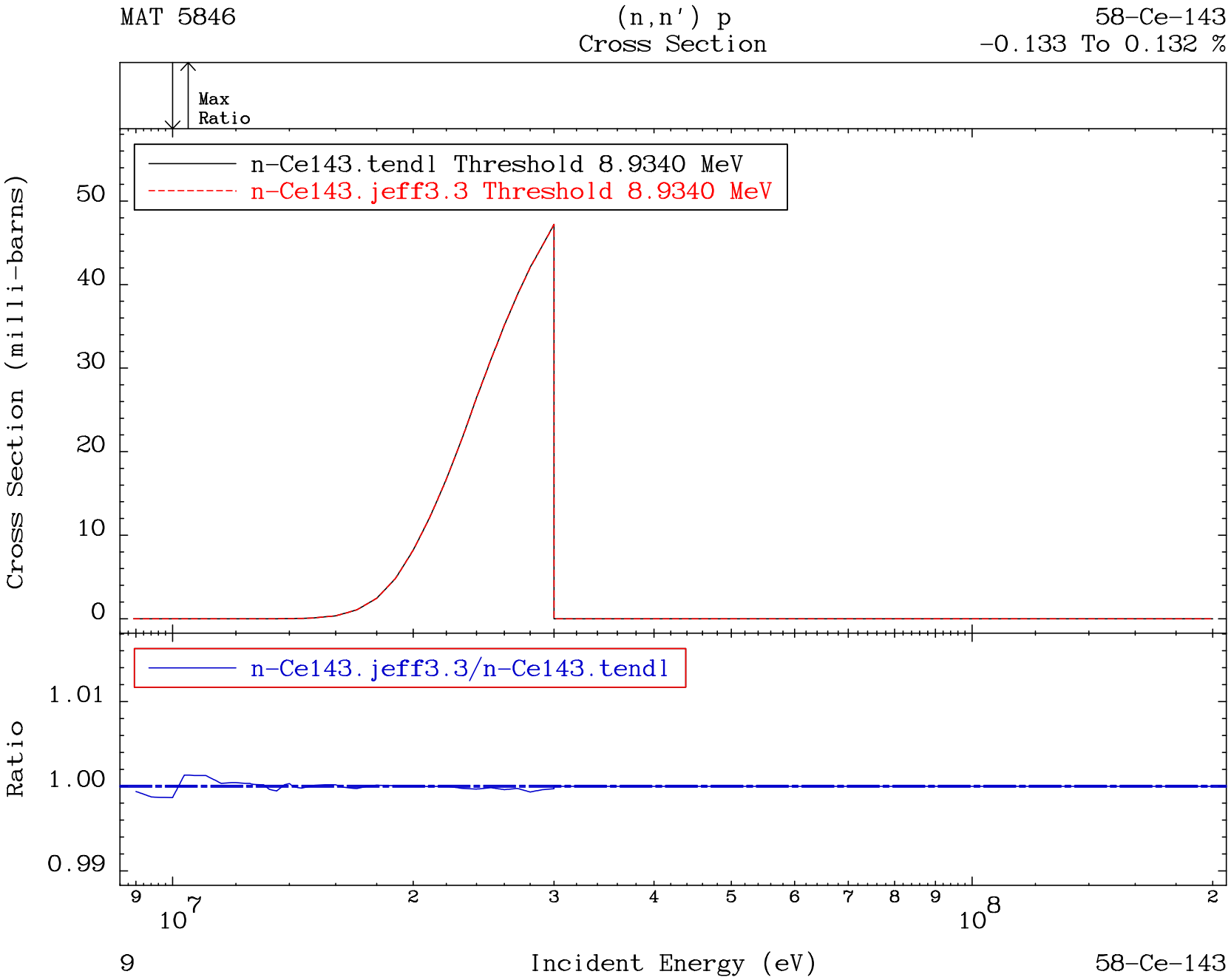

MAT 5846
(n,2n)
Cross Section
58-Ce-143
-0.137 To 0.004 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 5.1811 MeV
n-Ce143.jeff3.3 Threshold 5.1811 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
58-Ce-143

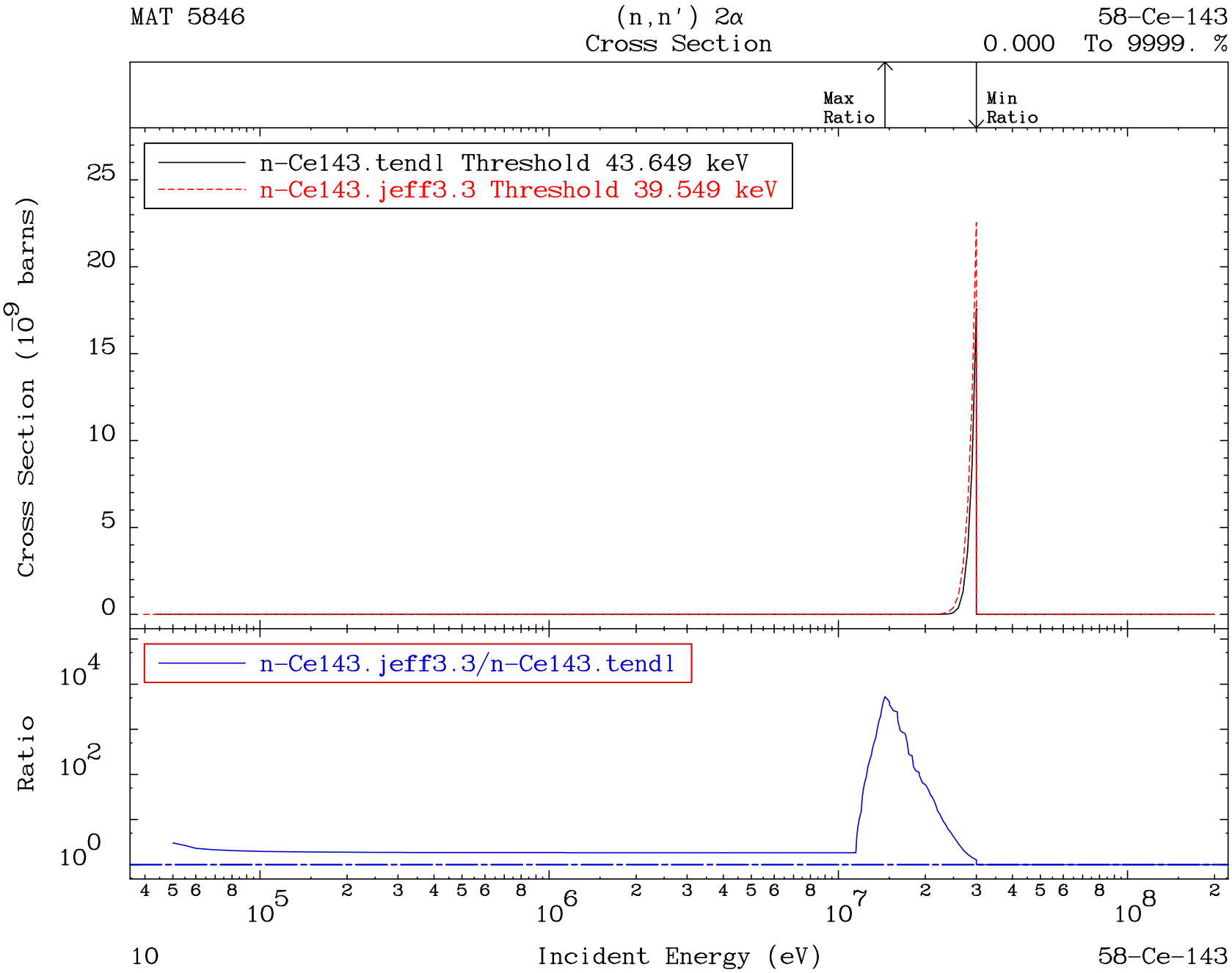

MAT 5846
(n,3n)
Cross Section
58-Ce-143
0.000 To 1.857 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 12.403 MeV
n-Ce143.jeff3.3 Threshold 12.400 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
58-Ce-143

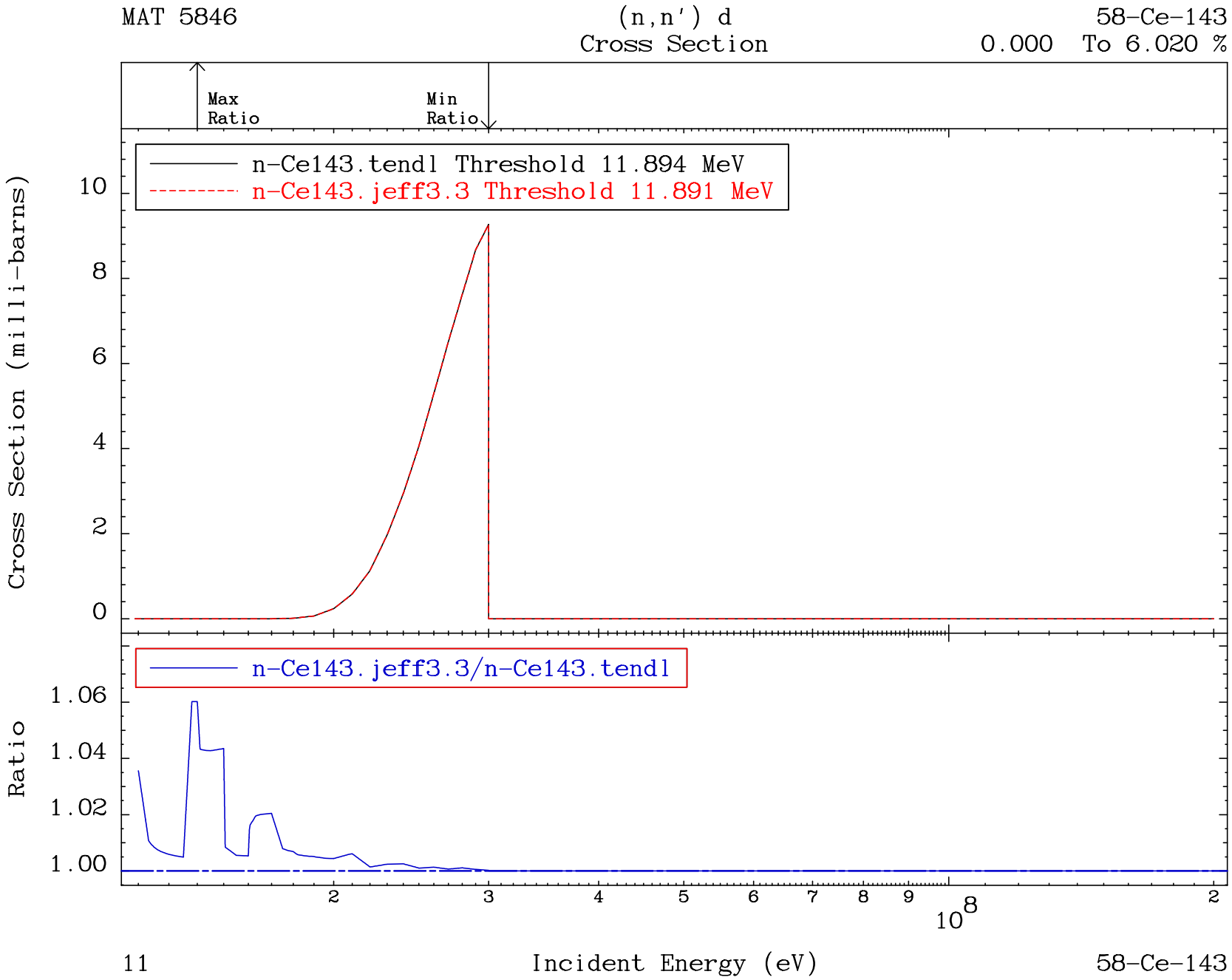

MAT 5846
(n,n') α
Cross Section
58-Ce-143
-9.761 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 2.0442 keV
n-Ce143.jeff3.3 Threshold 3.4722 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^0
10^3
10^6
10^9
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
6
Incident Energy (eV)
58-Ce-143

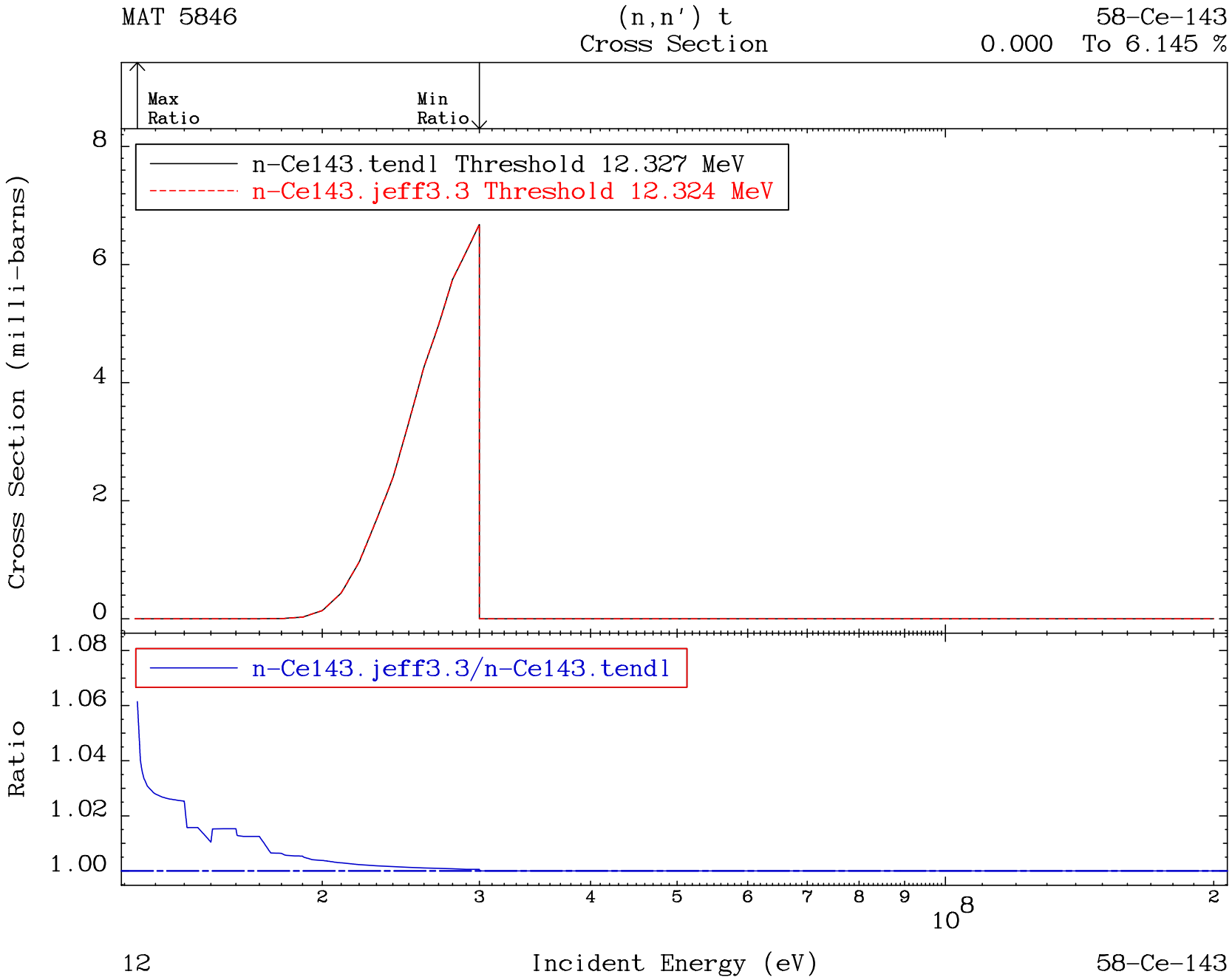

MAT 5846
(n,2n) α
Cross Section
58-Ce-143
-66.85 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl Threshold 3.8684 MeV
n-Ce143.jeff3.3 Threshold 3.8677 MeV
Cross Section (milli-barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
58-Ce-143

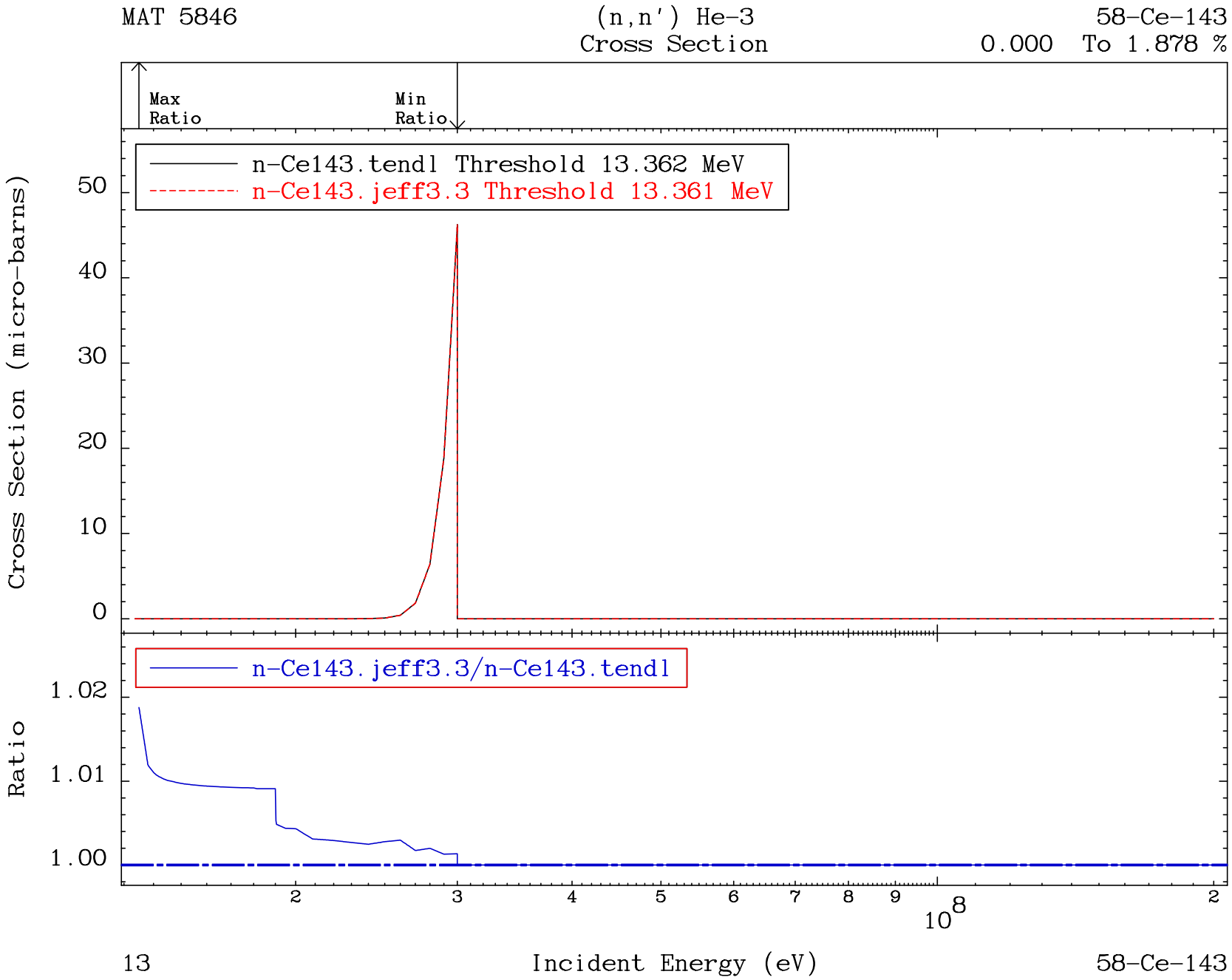

MAT 5846
(n,3n) α
Cross Section
58-Ce-143
-24.11 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl Threshold 12.541 MeV
n-Ce143.jeff3.3 Threshold 12.541 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
58-Ce-143

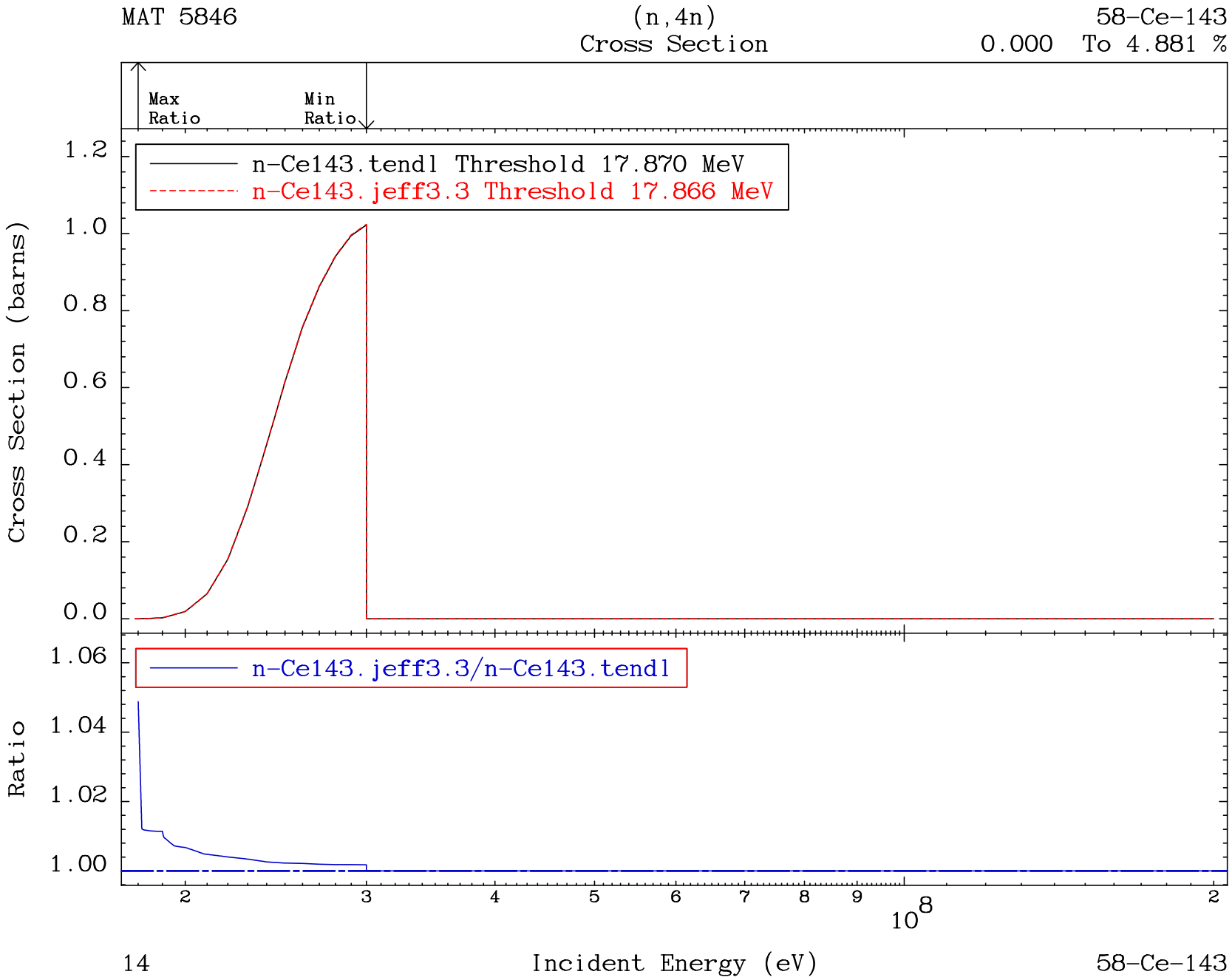

MAT 5846
(n,n') p
Cross Section
58-Ce-143
-0.133 To 0.132 %
Max
Ratio
n-Ce143.tendl Threshold 8.9340 MeV
n-Ce143.jeff3.3 Threshold 8.9340 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
58-Ce-143

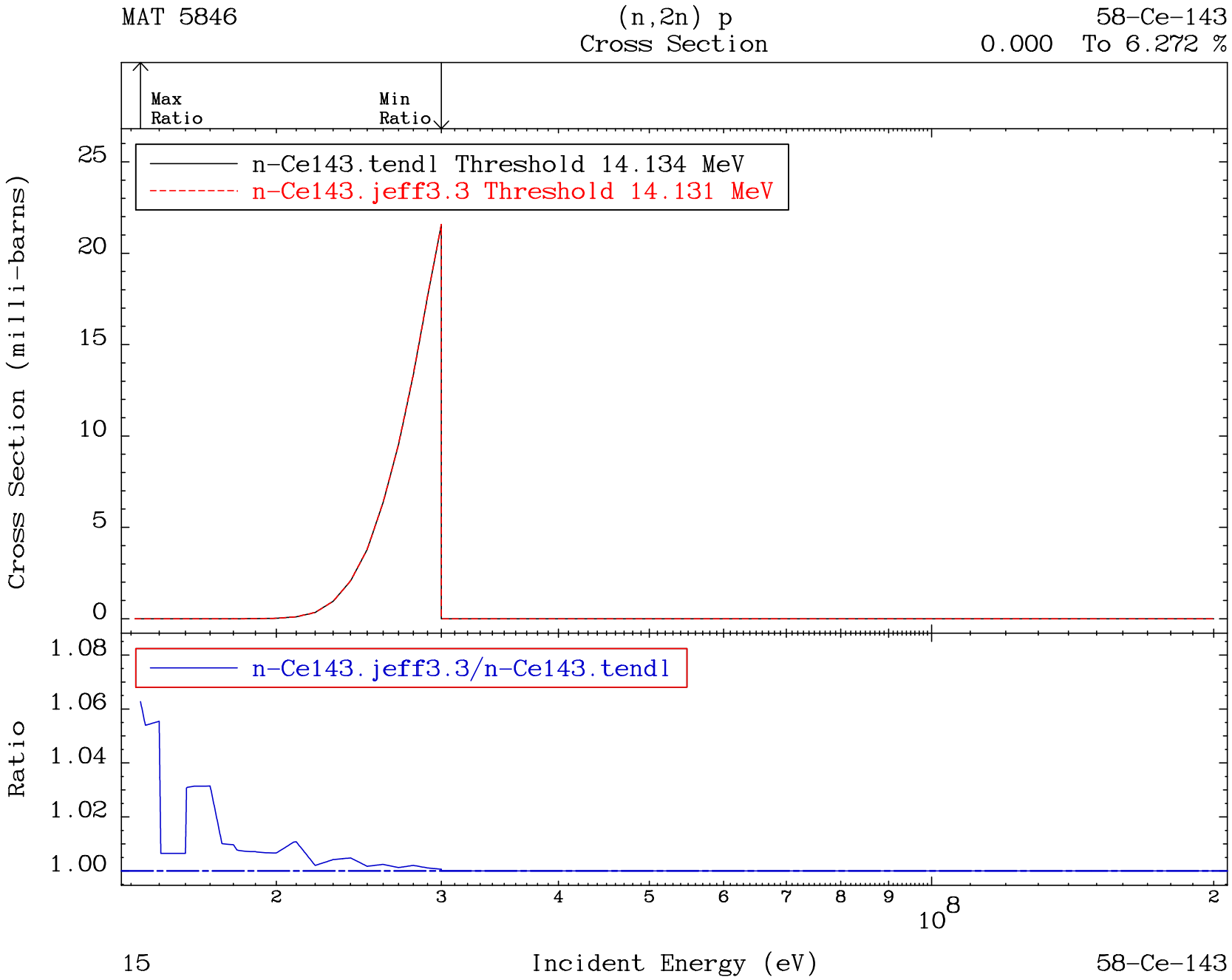

MAT 5846
(n,n') 2α
Cross Section
58-Ce-143
0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 43.649 keV
n-Ce143.jeff3.3 Threshold 39.549 keV
Cross Section (10^-9 barns)
25
20
15
10
5
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^4
10^2
10^0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
58-Ce-143

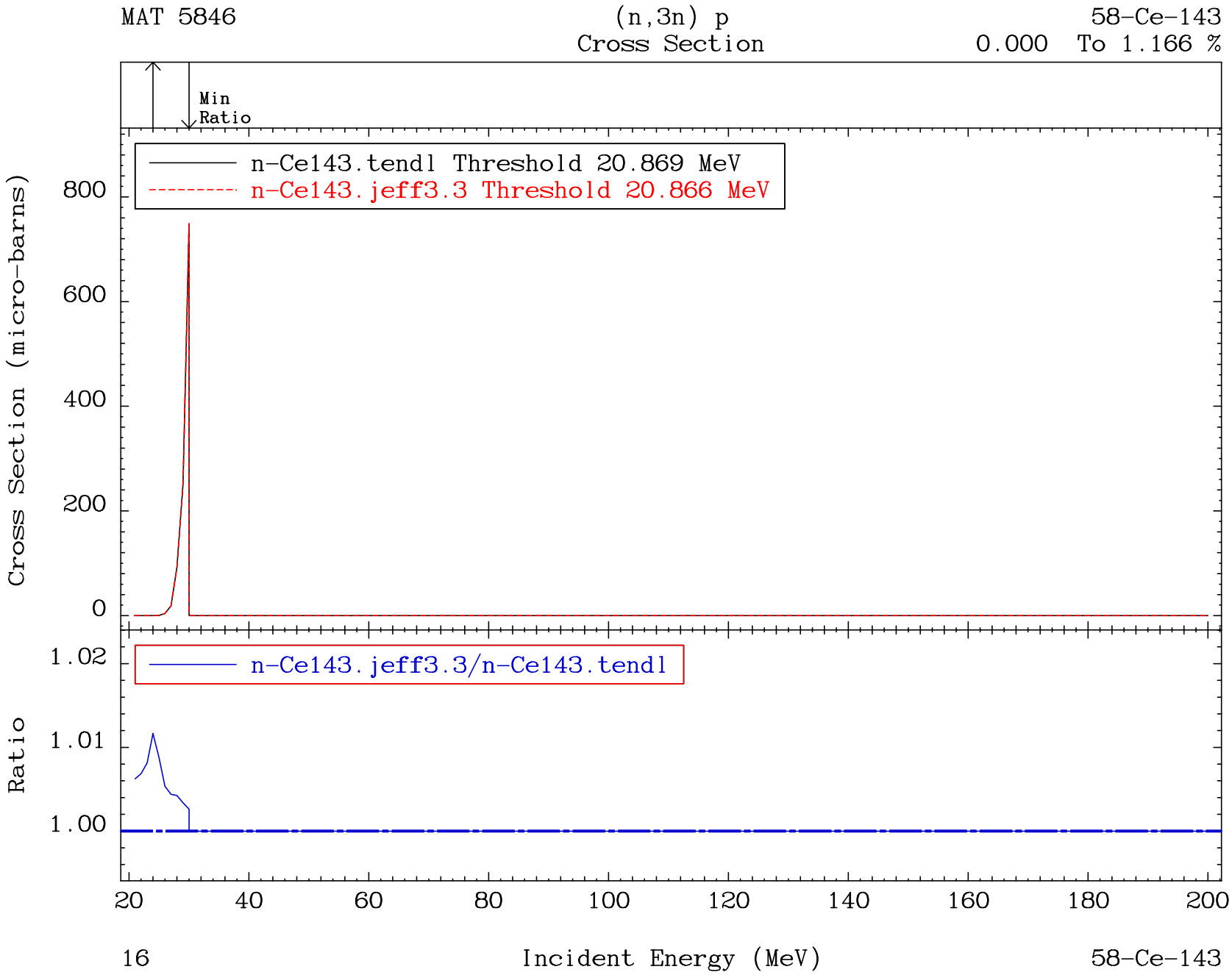

MAT 5846
(n,n') d
Cross Section
58-Ce-143
0.000 To 6.020 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 11.894 MeV
n-Ce143.jeff3.3 Threshold 11.891 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
58-Ce-143

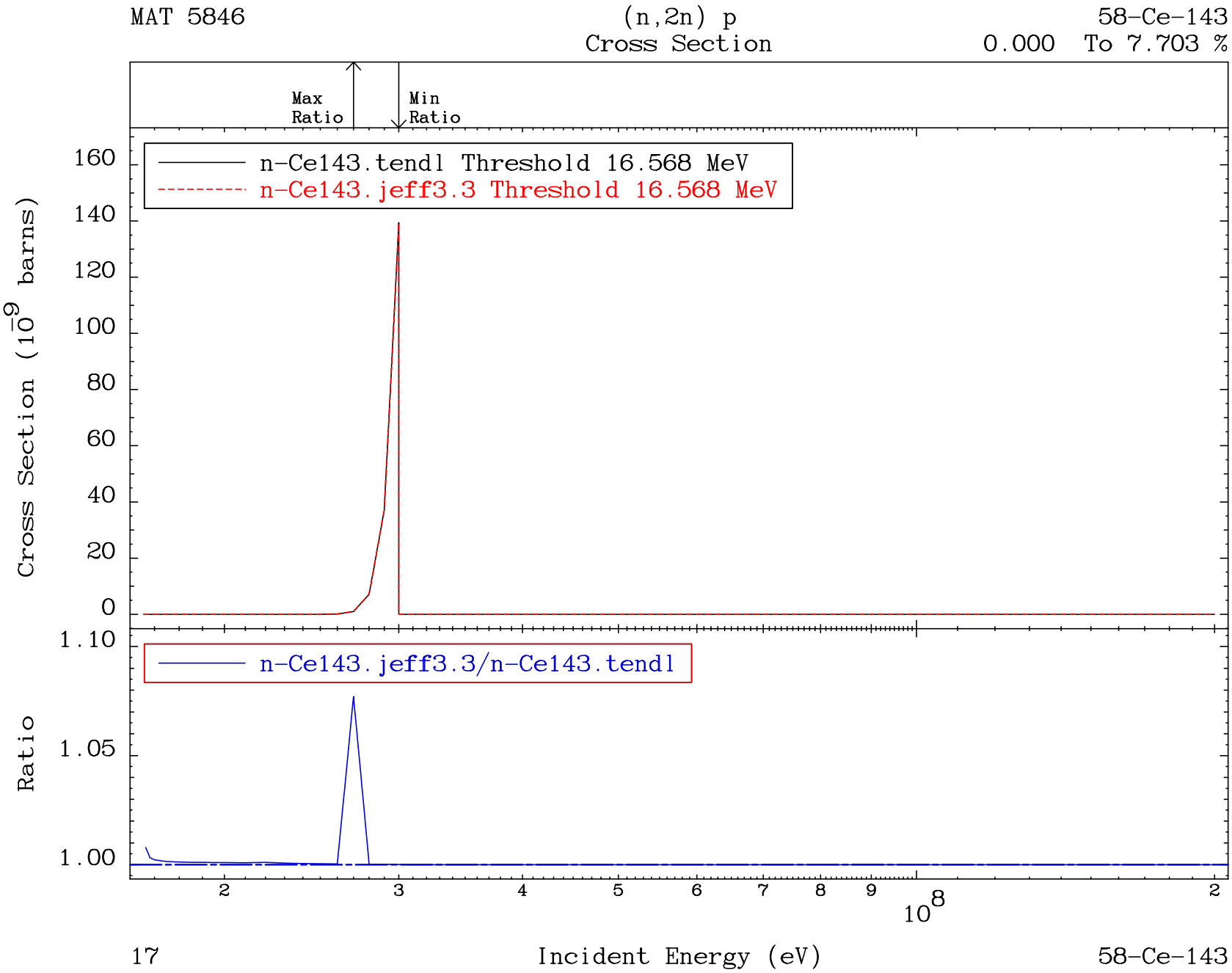

MAT 5846
(n,n') t
Cross Section
58-Ce-143
0.000 To 6.145 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 12.327 MeV
n-Ce143.jeff3.3 Threshold 12.324 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.00
1.02
1.04
1.06
1.08
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
58-Ce-143

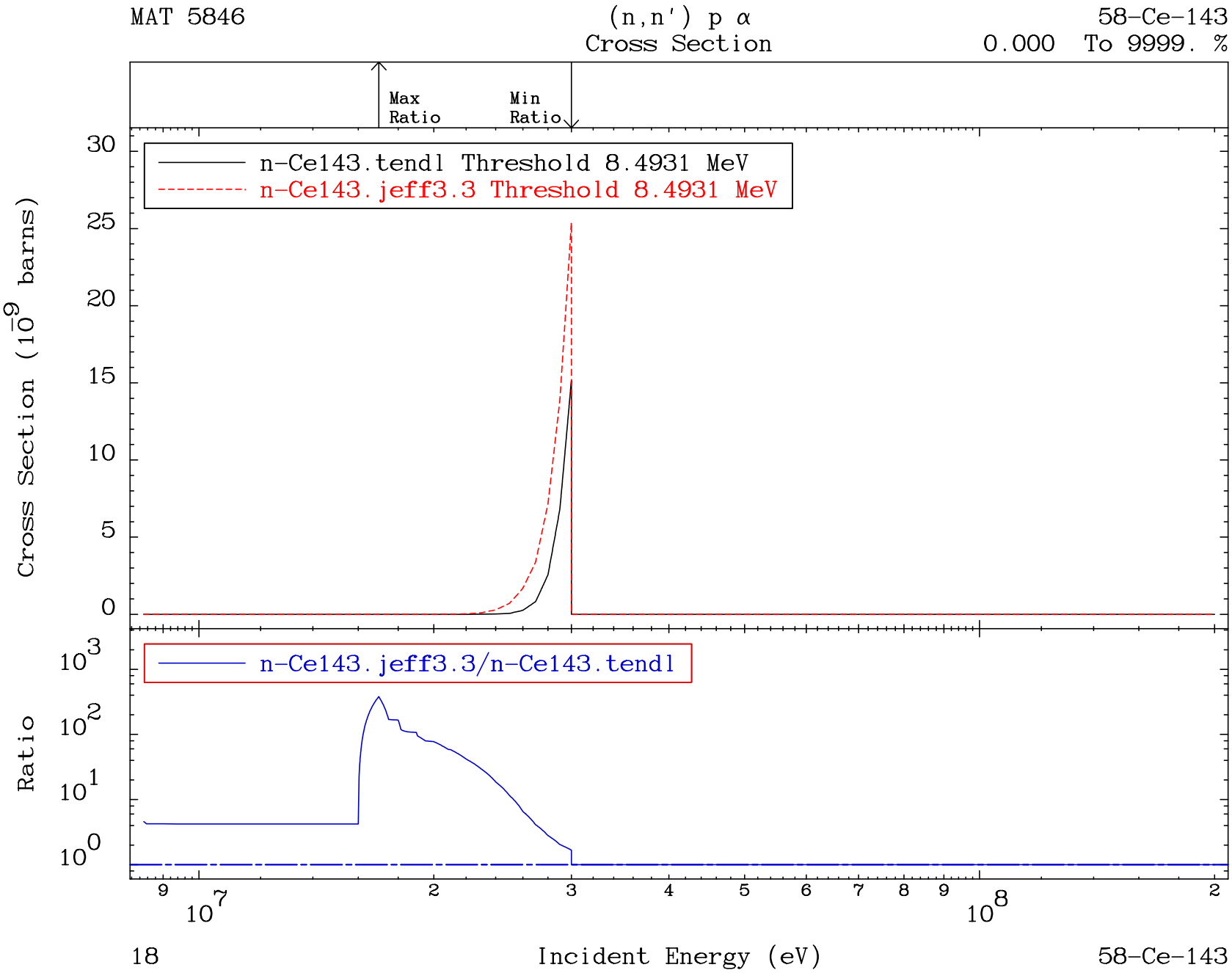

MAT 5846
(n,n') He-3
Cross Section
58-Ce-143
0.000 To 1.878 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 13.362 MeV
n-Ce143.jeff3.3 Threshold 13.361 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
58-Ce-143

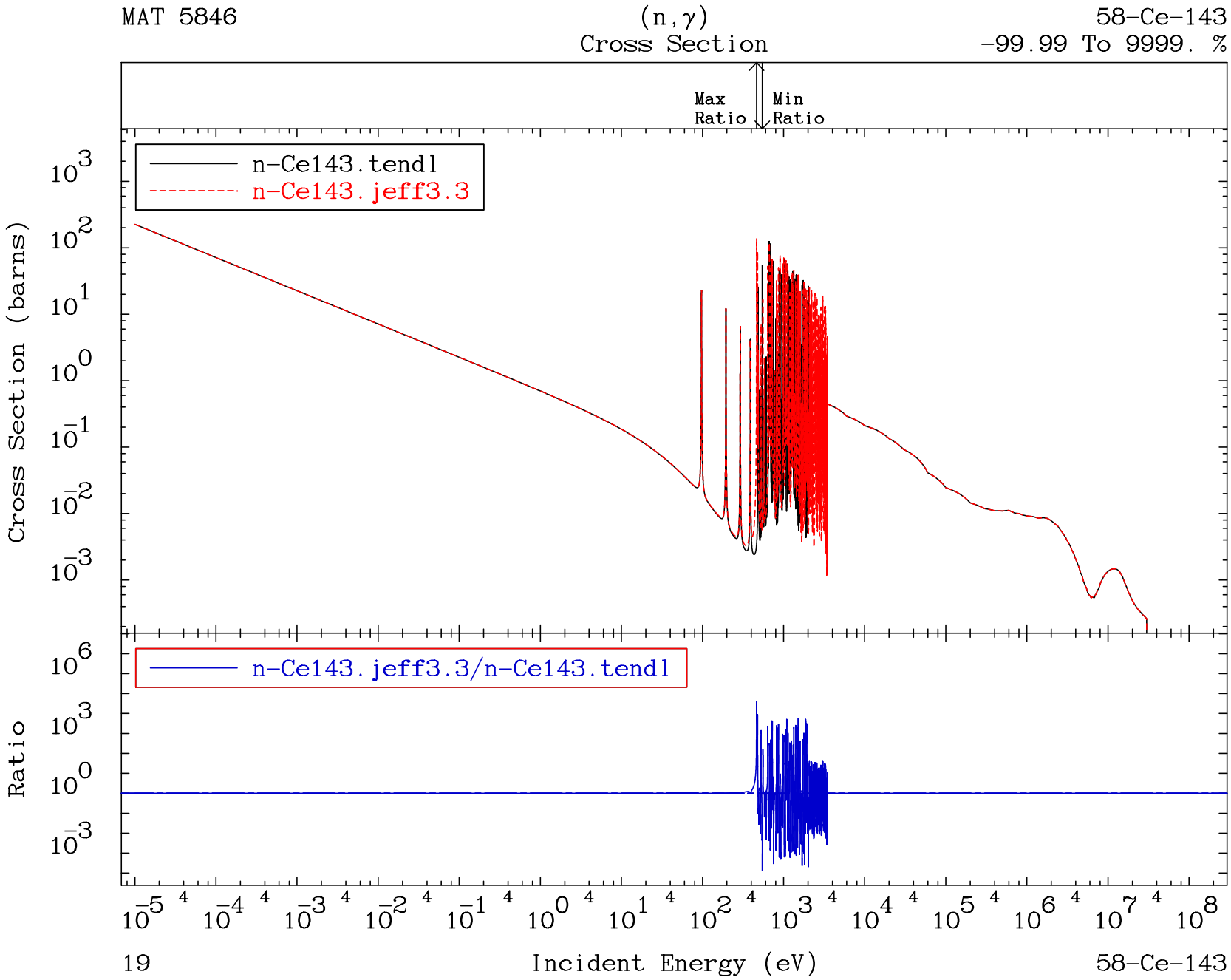

MAT 5846
(n,4n)
Cross Section
58-Ce-143
0.000 To 4.881 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 17.870 MeV
n-Ce143.jeff3.3 Threshold 17.866 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
58-Ce-143

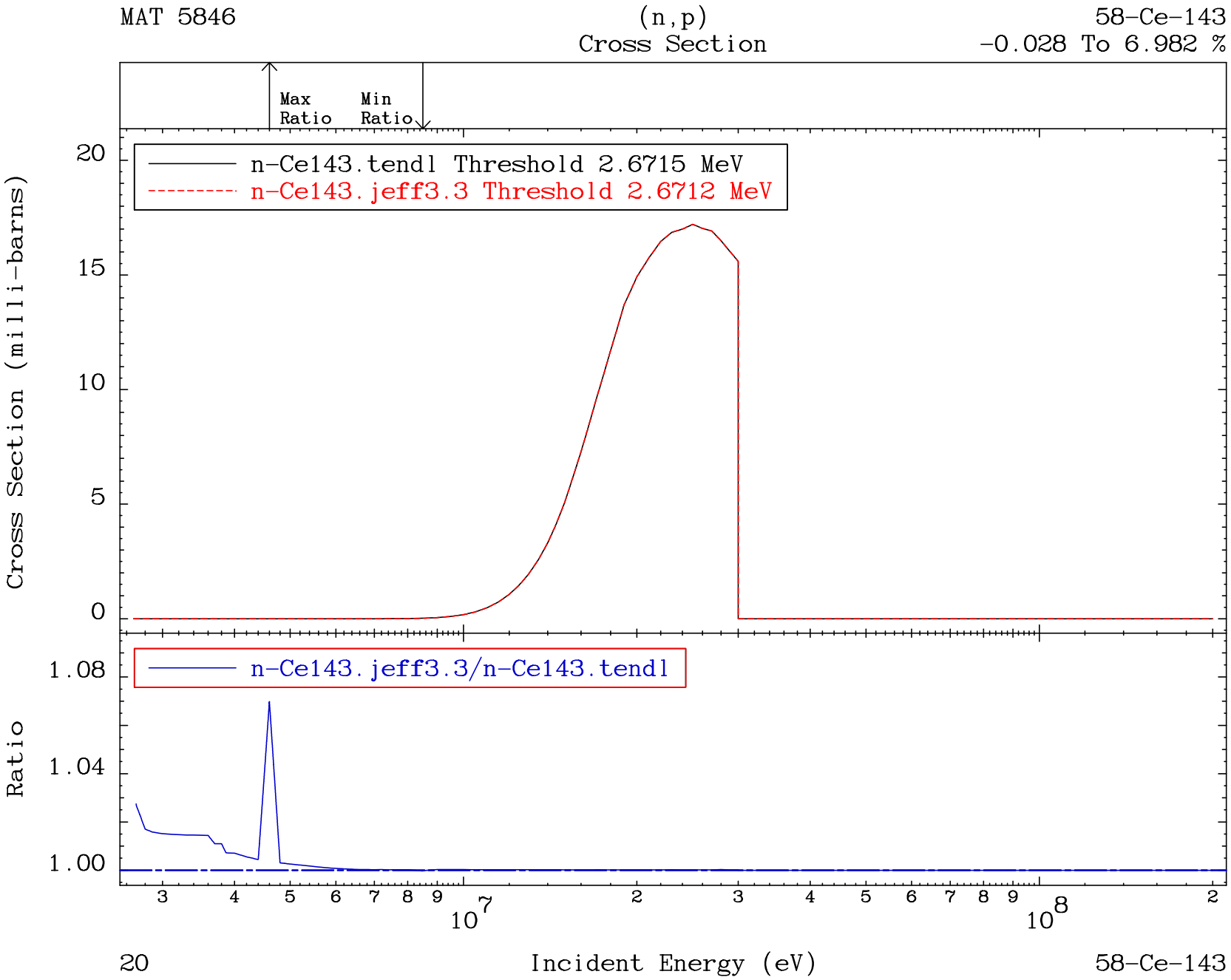

MAT 5846
(n,2n) p
Cross Section
58-Ce-143
0.000 To 6.272 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 14.134 MeV
n-Ce143.jeff3.3 Threshold 14.131 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.08
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
58-Ce-143

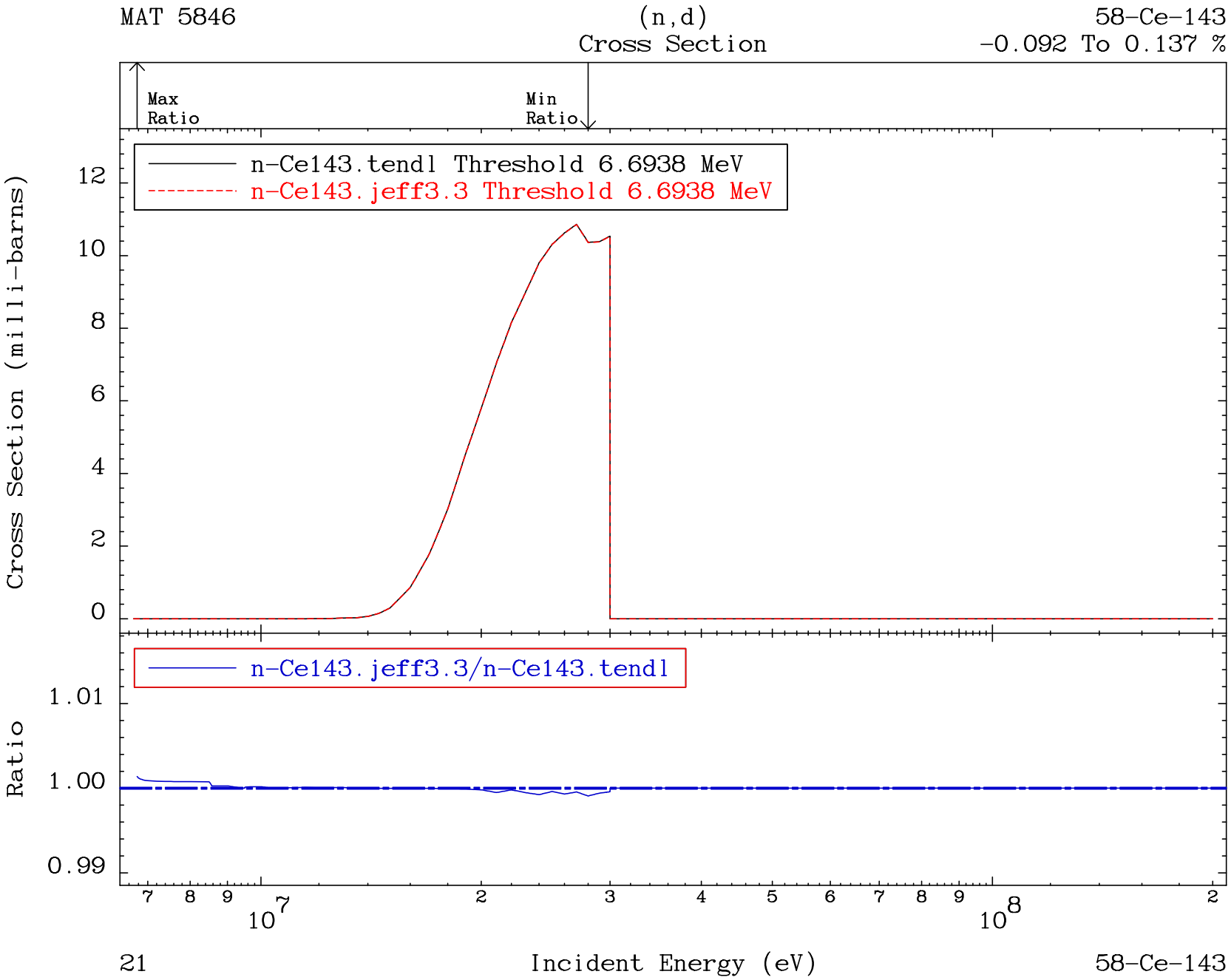

MAT 5846
(n,3n) p
Cross Section
58-Ce-143
0.000 To 1.166 %
Min
Ratio
n-Ce143.tendl Threshold 20.869 MeV
n-Ce143.jeff3.3 Threshold 20.866 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.02
1.01
1.00
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
58-Ce-143

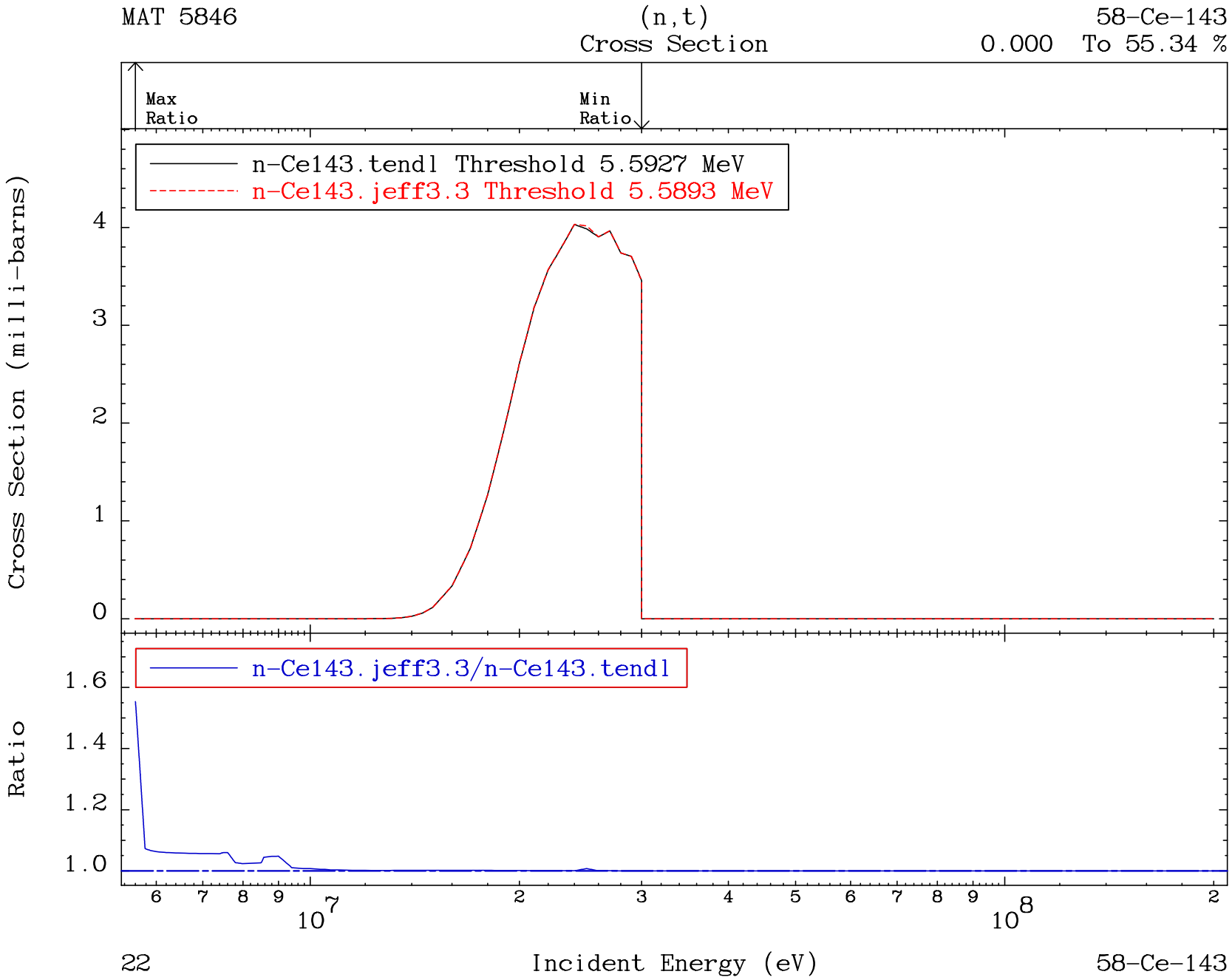

MAT 5846
(n,2n) p
Cross Section
58-Ce-143
0.000 To 7.703 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 16.568 MeV
n-Ce143.jeff3.3 Threshold 16.568 MeV
Cross Section (10^{-9} barns)
160
140
120
100
80
60
40
20
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
58-Ce-143

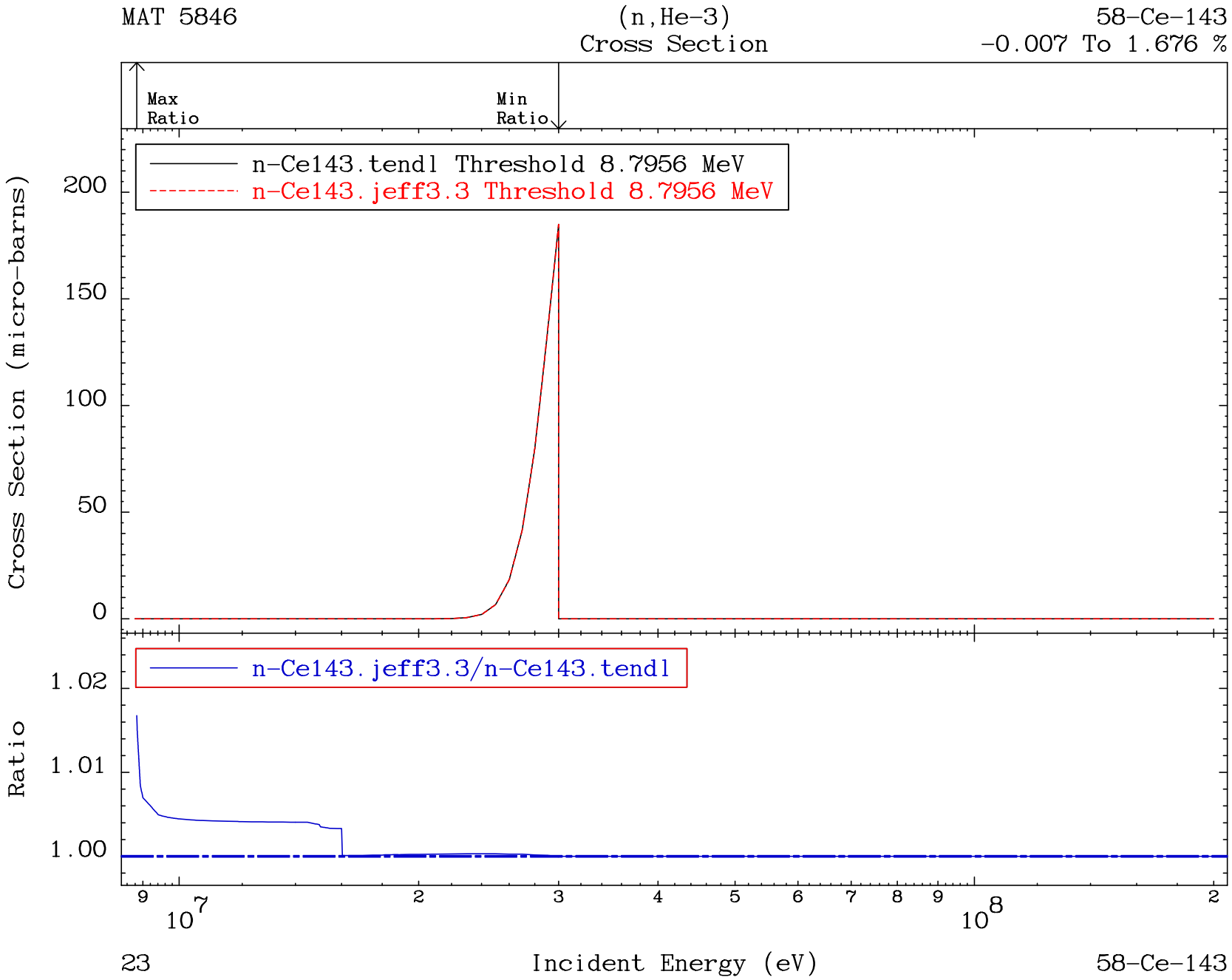

MAT 5846
(n,n') p α
Cross Section
58-Ce-143
0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 8.4931 MeV
n-Ce143.jeff3.3 Threshold 8.4931 MeV
Cross Section (10^-9 barns)
30
25
20
15
10
5
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^3
10^2
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
58-Ce-143

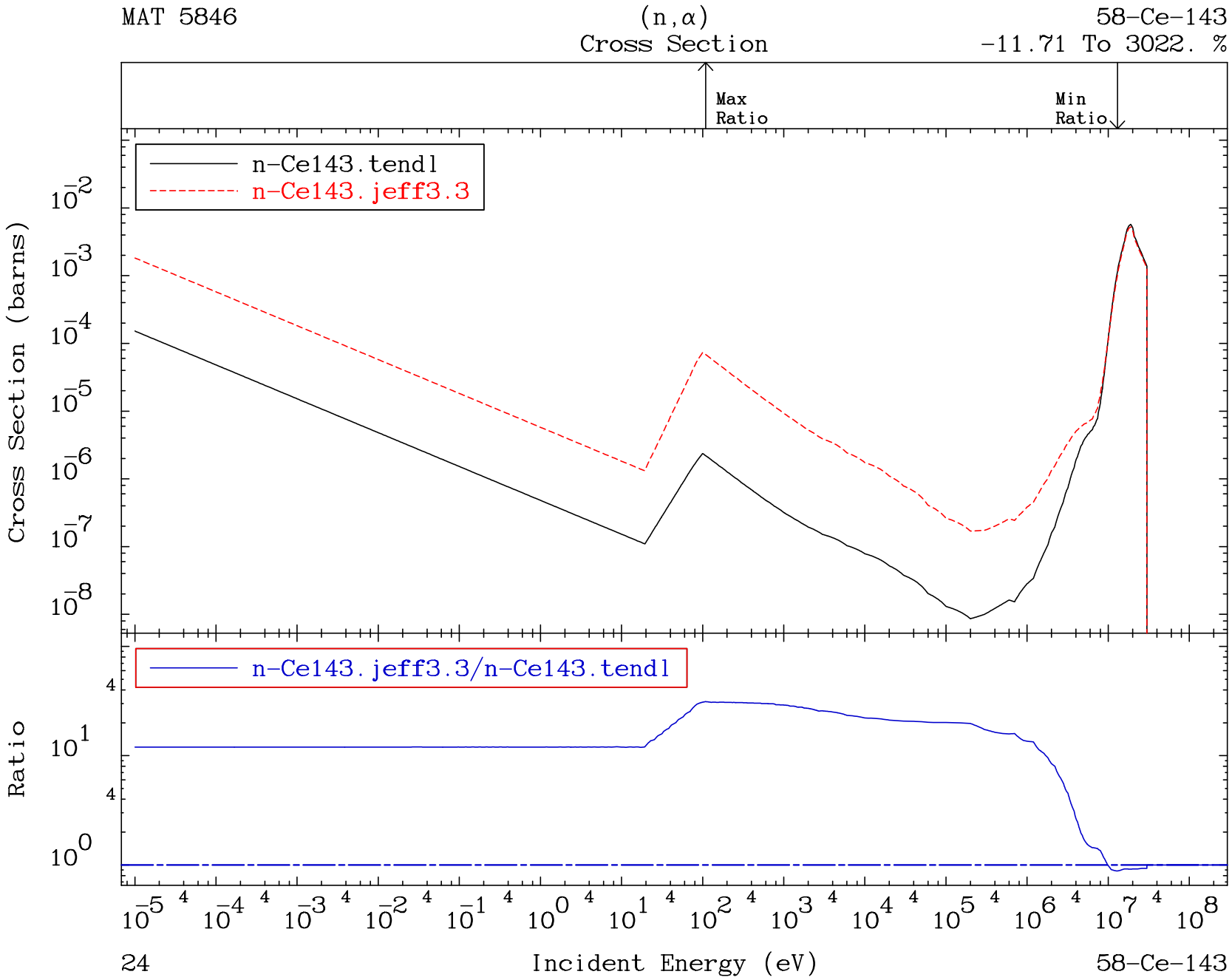

MAT 5846
(n,γ)
Cross Section
58-Ce-143
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
19
58-Ce-143

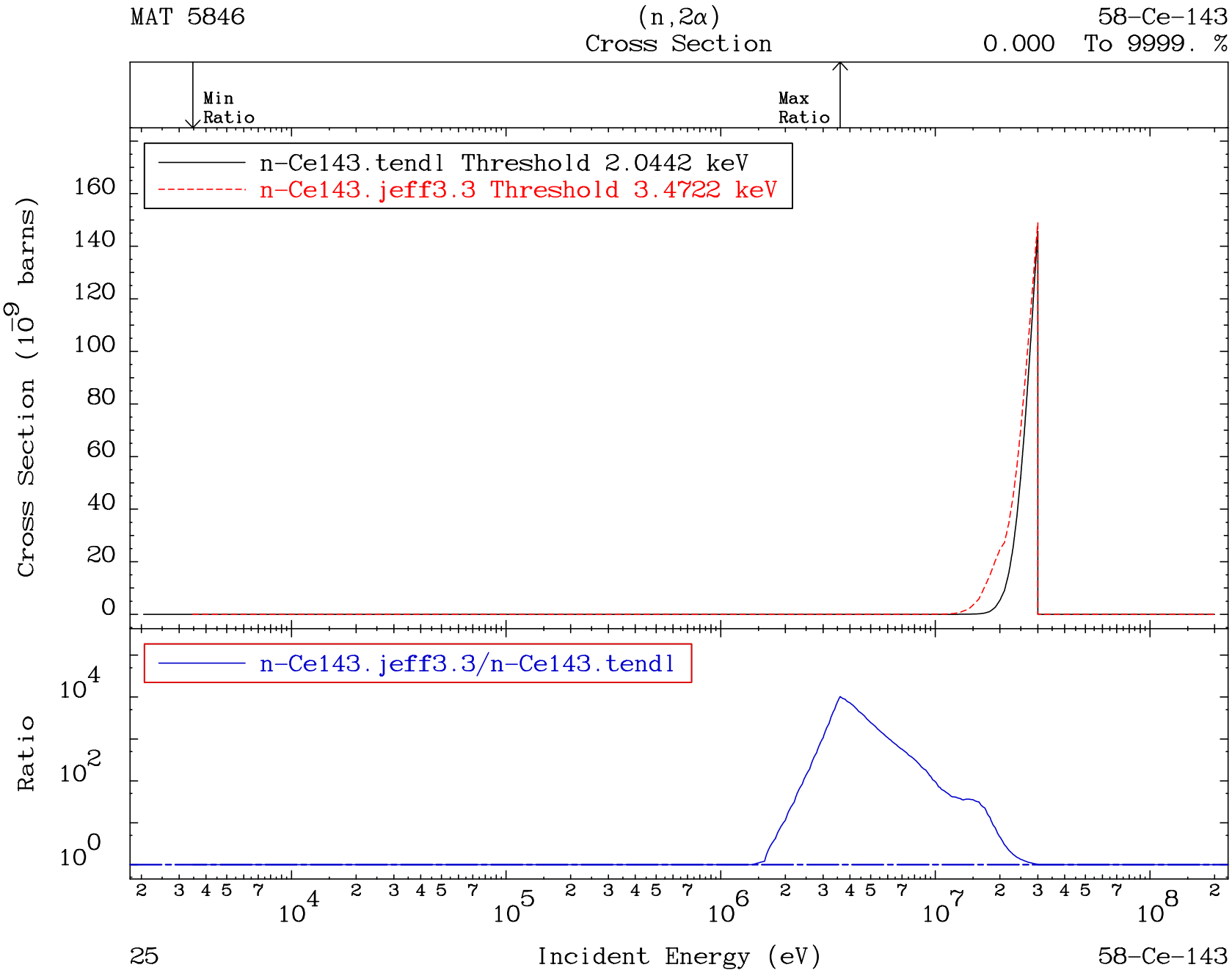

MAT 5846
(n,p)
Cross Section
58-Ce-143
-0.028 To 6.982 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 2.6715 MeV
n-Ce143.jeff3.3 Threshold 2.6712 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.08
1.04
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
58-Ce-143

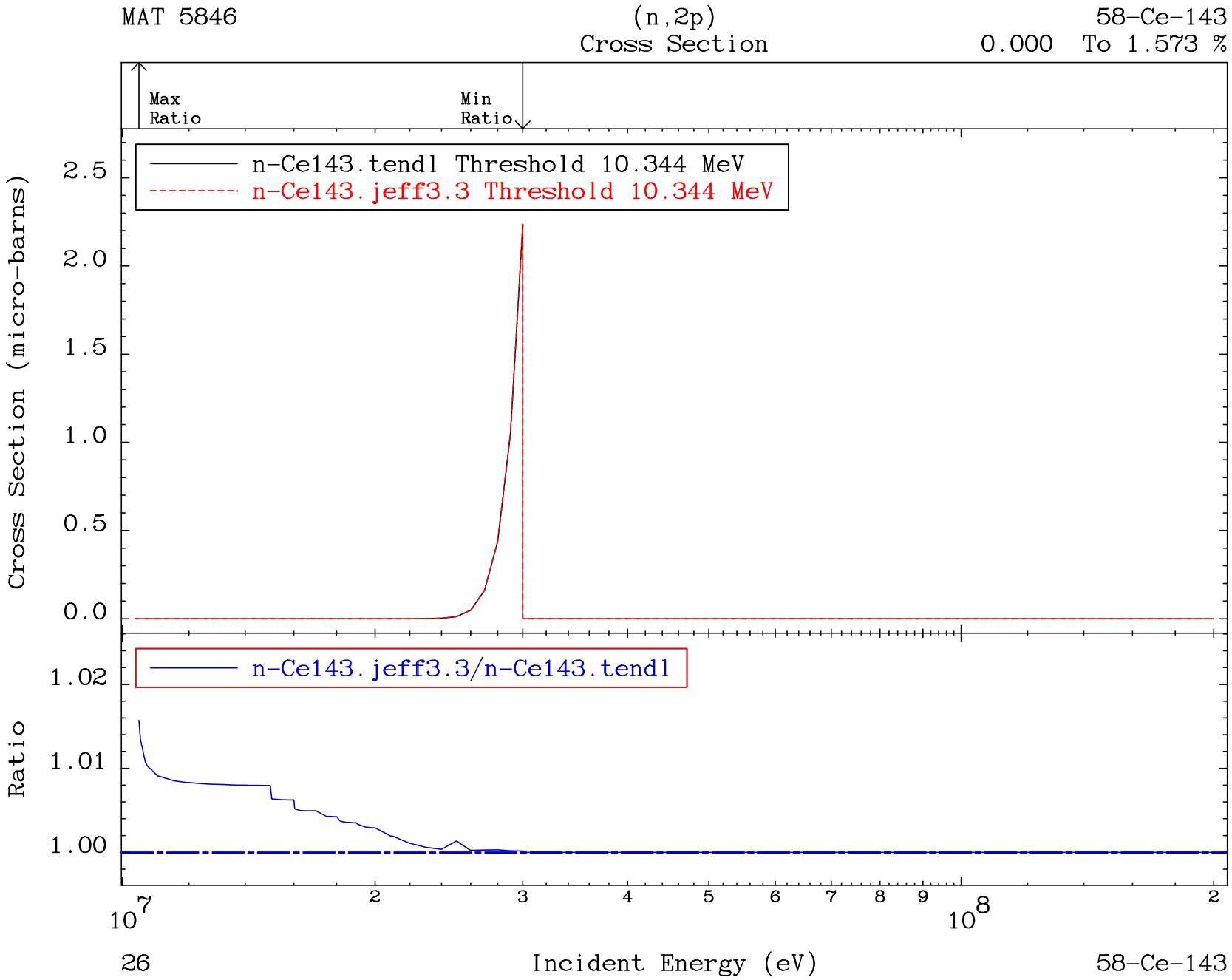

MAT 5846
(n,d)
Cross Section
58-Ce-143
-0.092 To 0.137 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 6.6938 MeV
n-Ce143.jeff3.3 Threshold 6.6938 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
58-Ce-143

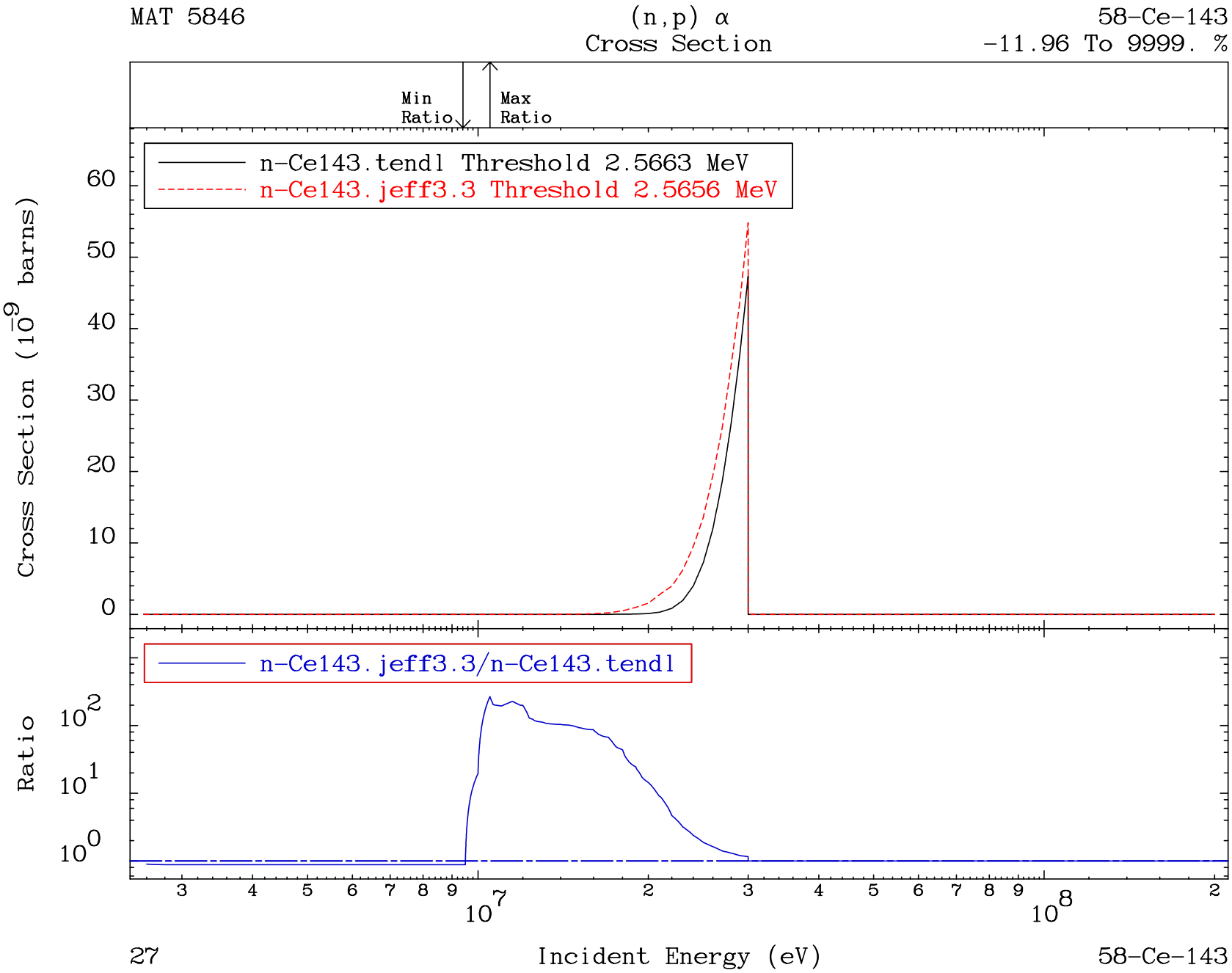

MAT 5846
(n,t)
Cross Section
58-Ce-143
0.000 To 55.34 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 5.5927 MeV
n-Ce143.jeff3.3 Threshold 5.5893 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.0
1.2
1.4
1.6
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
58-Ce-143

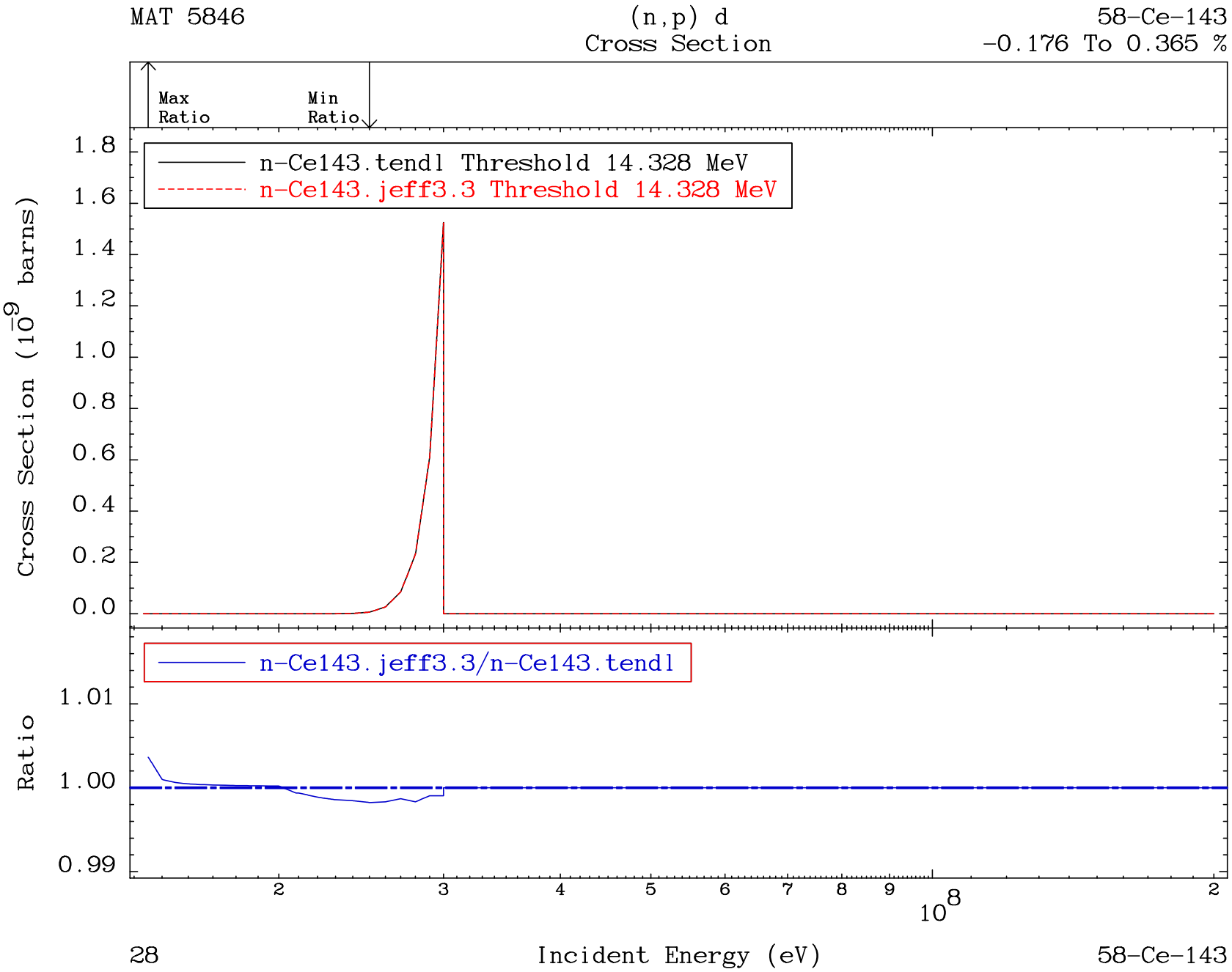

MAT 5846
(n,He-3)
Cross Section
58-Ce-143
-0.007 To 1.676 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 8.7956 MeV
n-Ce143.jeff3.3 Threshold 8.7956 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.02
1.01
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
58-Ce-143

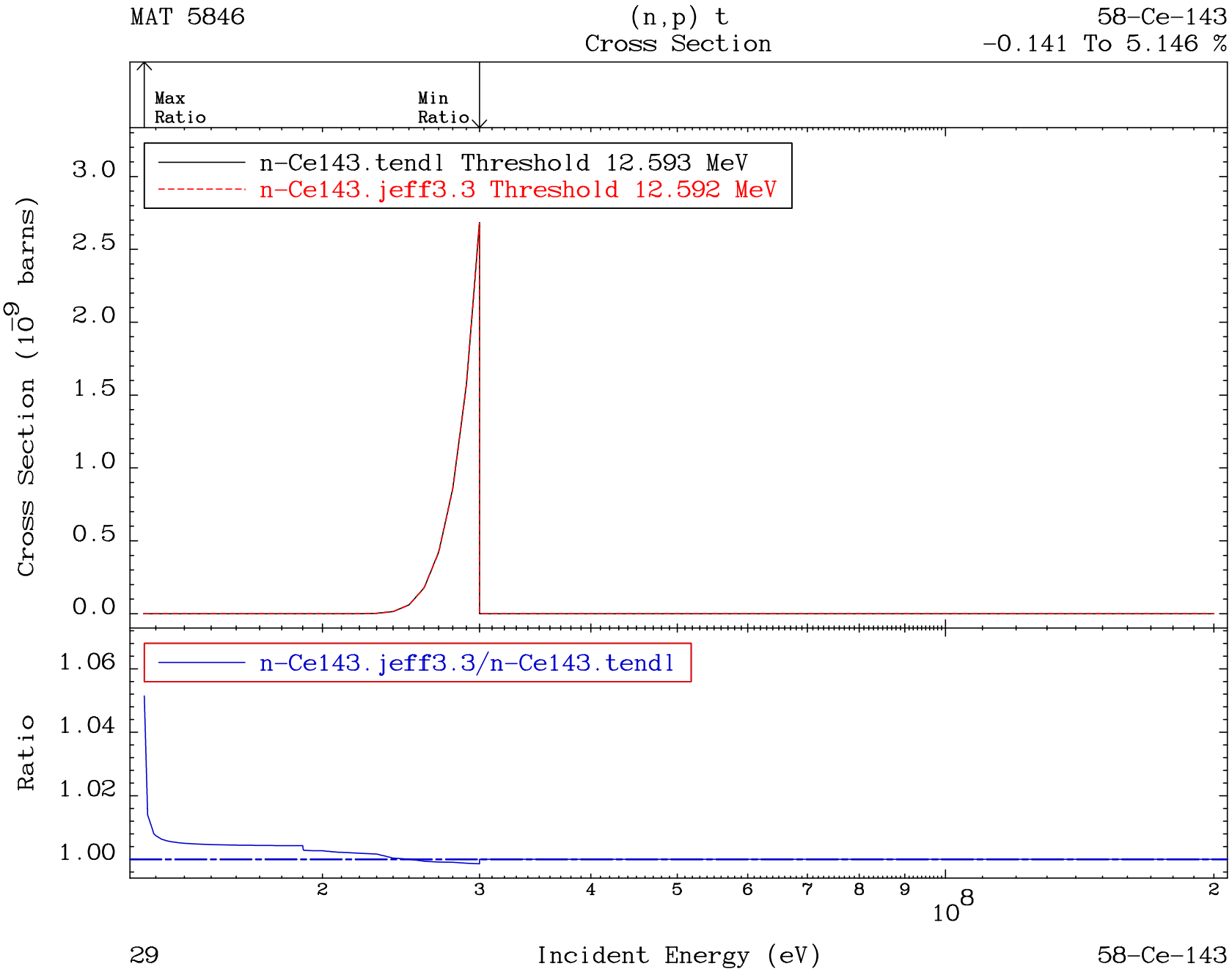

MAT 5846
(n,α)
Cross Section
58-Ce-143
-11.71 To 3022. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
24
58-Ce-143

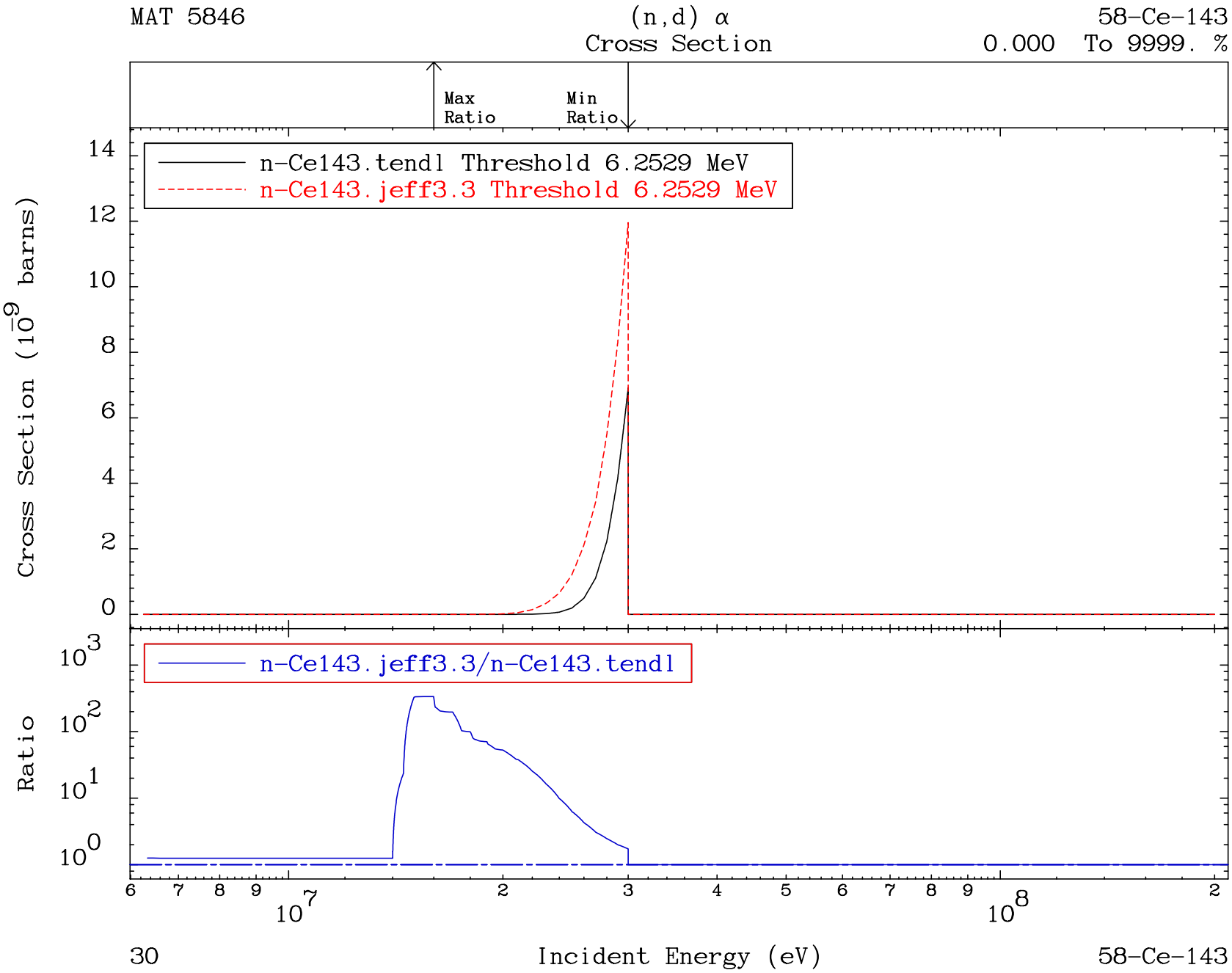

MAT 5846
(n,2α)
Cross Section
58-Ce-143
0.000 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl Threshold 2.0442 keV
n-Ce143.jeff3.3 Threshold 3.4722 keV
Cross Section (10^{-9} barns)
160
140
120
100
80
60
40
20
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^4
10^2
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
25
Incident Energy (eV)
58-Ce-143

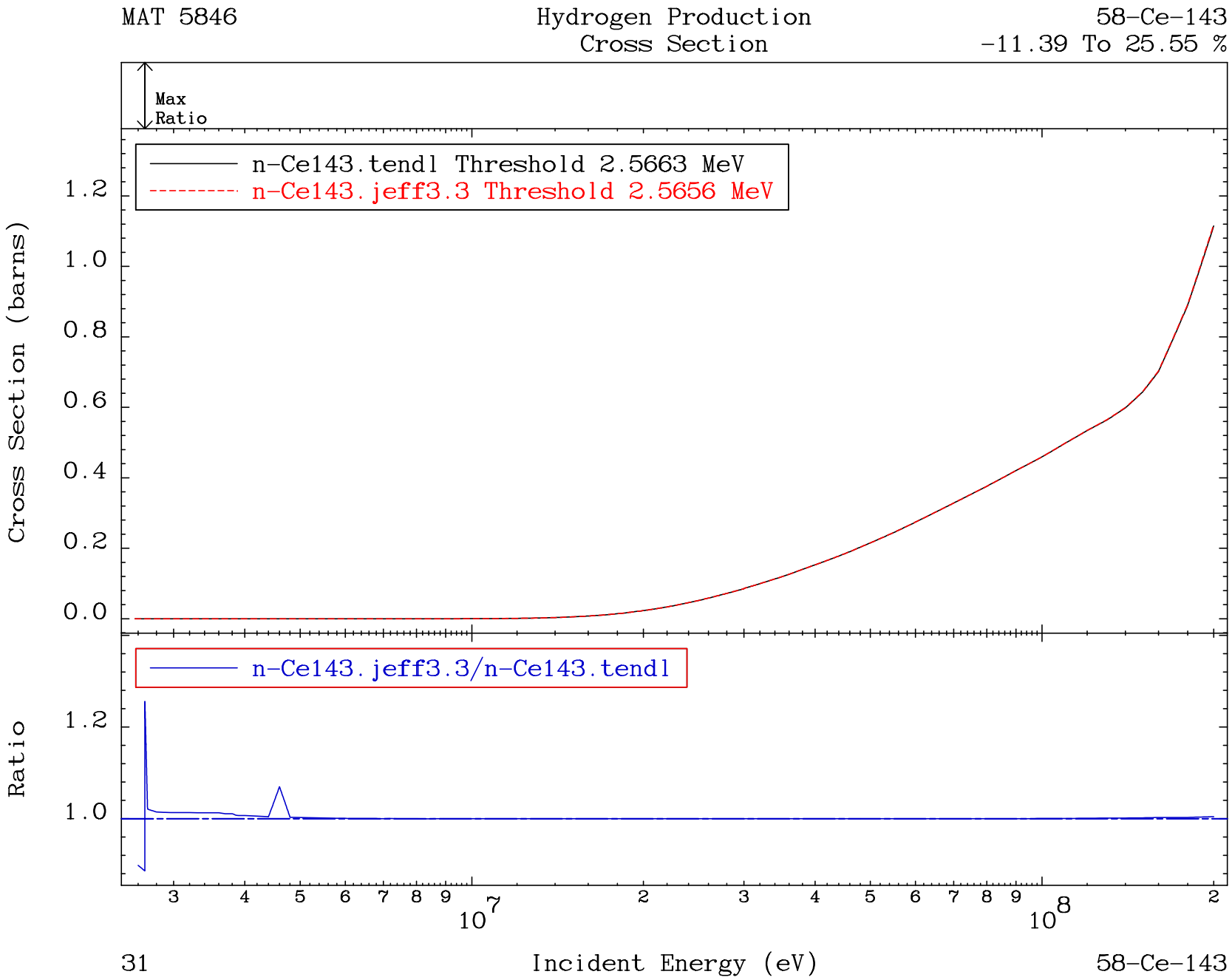

MAT 5846
(n,2p)
Cross Section
58-Ce-143
0.000 To 1.573 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 10.344 MeV
n-Ce143.jeff3.3 Threshold 10.344 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.02
1.01
1.00
10^7
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
58-Ce-143

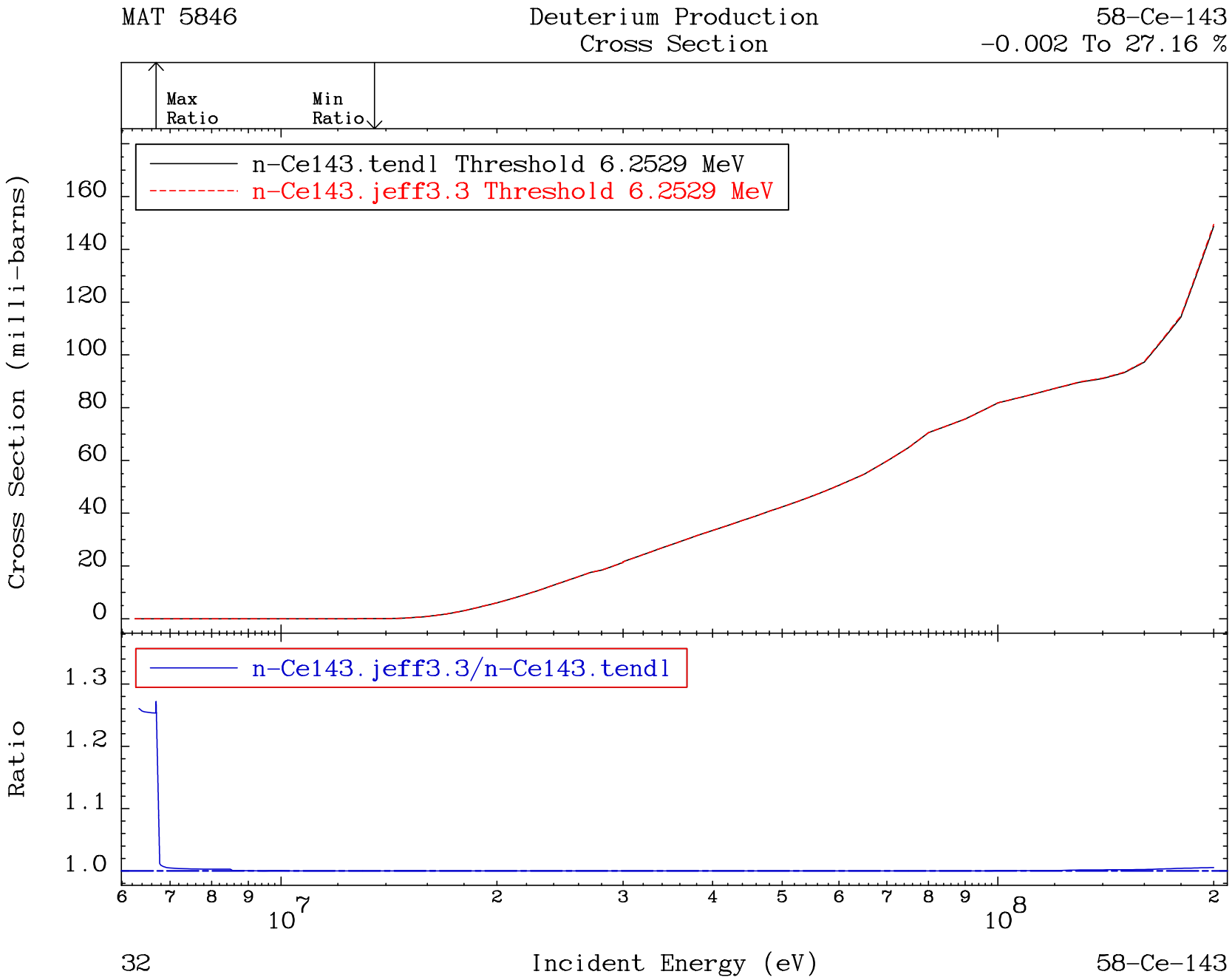

MAT 5846
(n,p) α
Cross Section
58-Ce-143
-11.96 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl Threshold 2.5663 MeV
n-Ce143.jeff3.3 Threshold 2.5656 MeV
Cross Section (10^{-9} barns)
60
50
40
30
20
10
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^{2}
10^{1}
10^{0}
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
27
Incident Energy (eV)
58-Ce-143

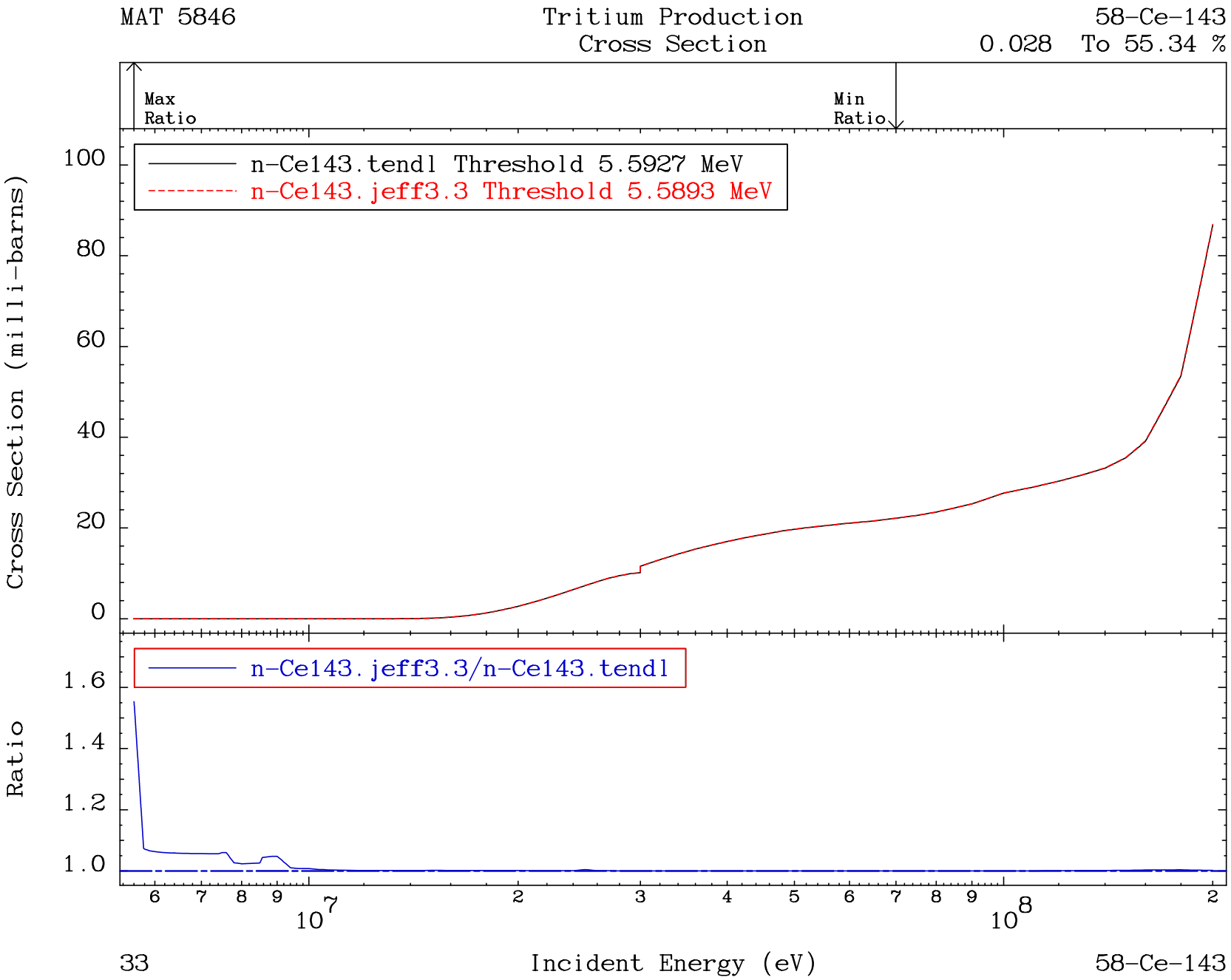

MAT 5846
(n,p) d
Cross Section
58-Ce-143
-0.176 To 0.365 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 14.328 MeV
n-Ce143.jeff3.3 Threshold 14.328 MeV
Cross Section (10^{-9} barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^{8}
2
28
Incident Energy (eV)
58-Ce-143

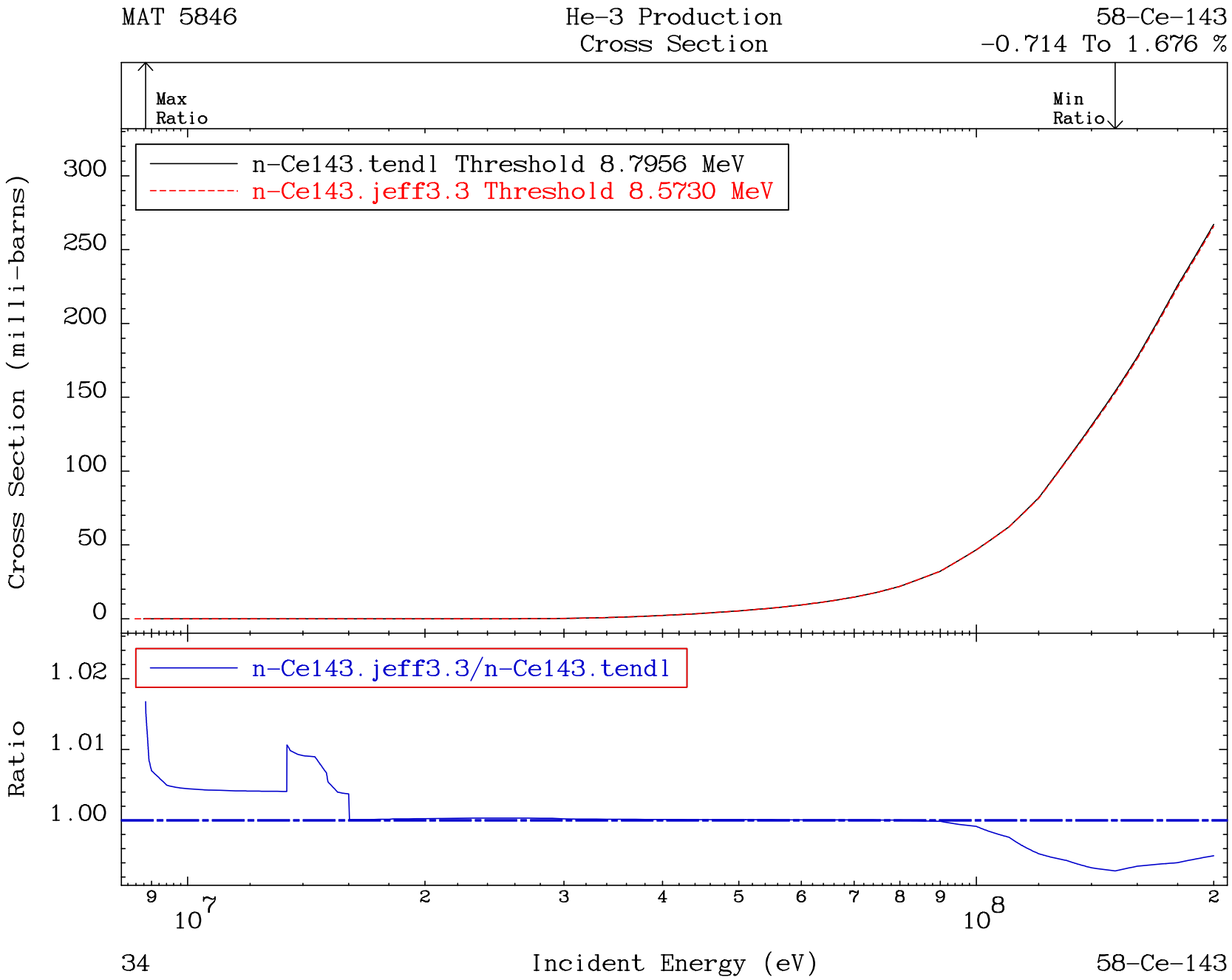

MAT 5846
(n,p) t
Cross Section
58-Ce-143
-0.141 To 5.146 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 12.593 MeV
n-Ce143.jeff3.3 Threshold 12.592 MeV
Cross Section (10^-9 barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
58-Ce-143

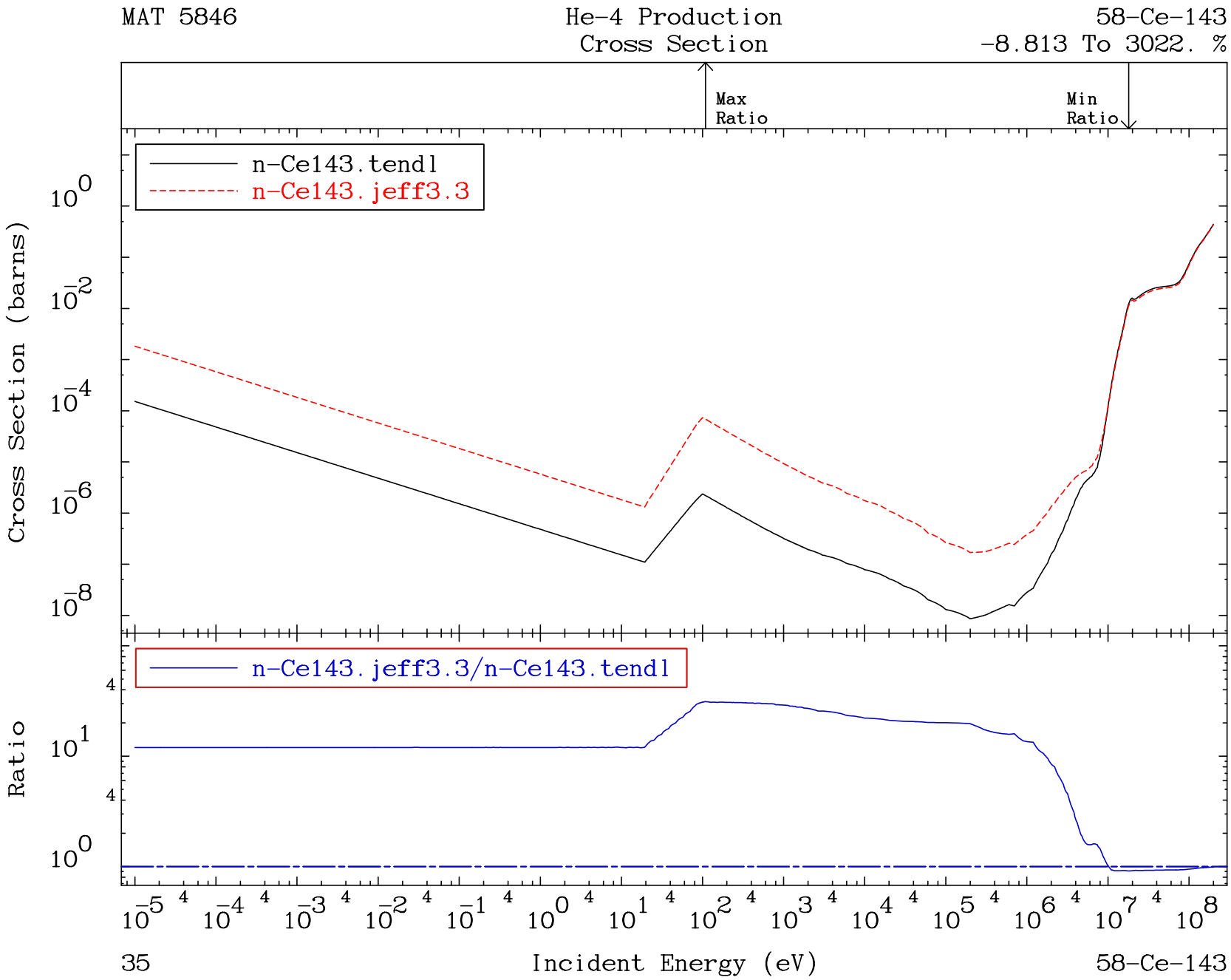

MAT 5846
(n,d) α
Cross Section
58-Ce-143
0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 6.2529 MeV
n-Ce143.jeff3.3 Threshold 6.2529 MeV
Cross Section (10^{-9} barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
30
58-Ce-143

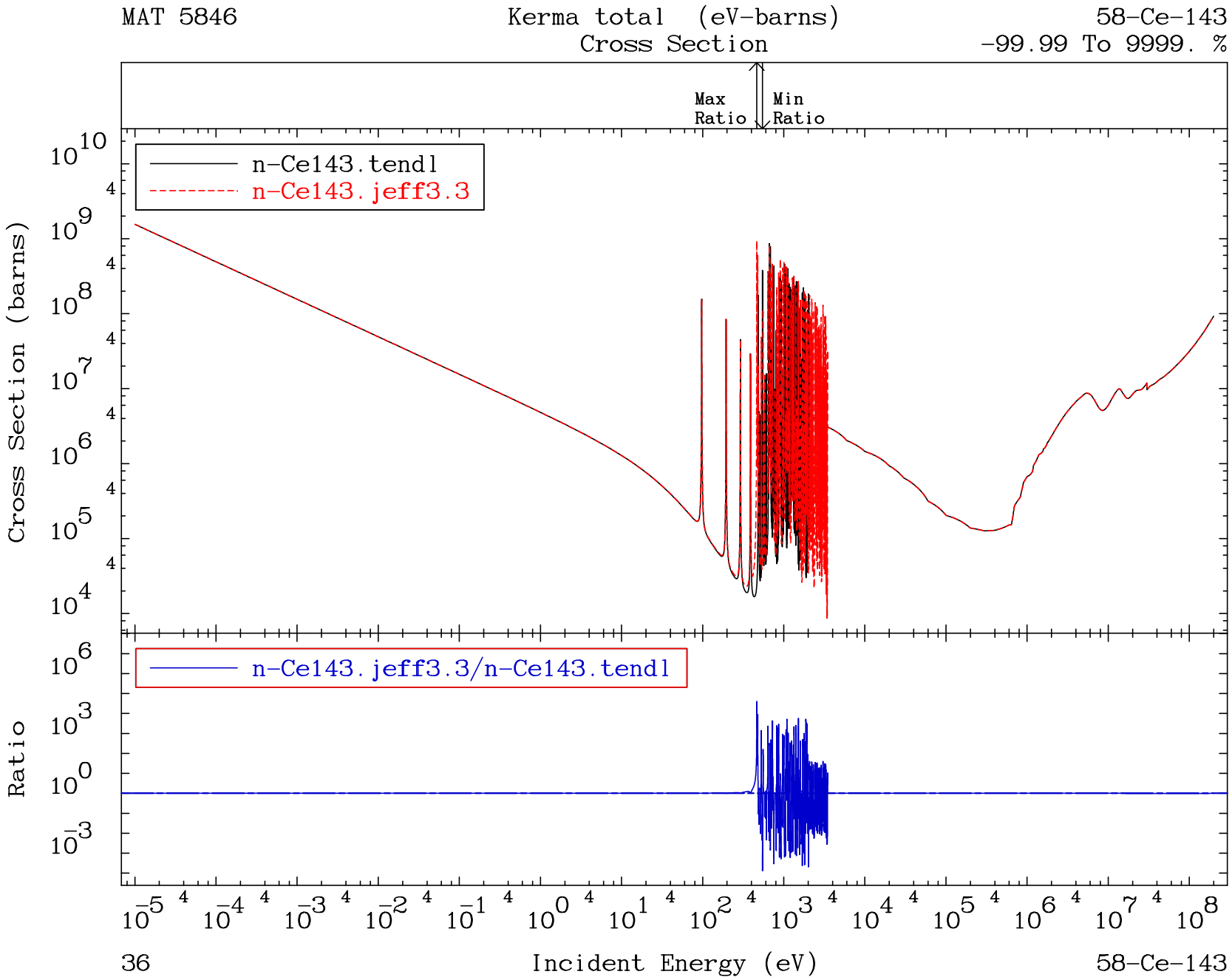

MAT 5846
Hydrogen Production
Cross Section
58-Ce-143
-11.39 To 25.55 %
Max
Ratio
n-Ce143.tendl Threshold 2.5663 MeV
n-Ce143.jeff3.3 Threshold 2.5656 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.2
1.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
31
Incident Energy (eV)
58-Ce-143

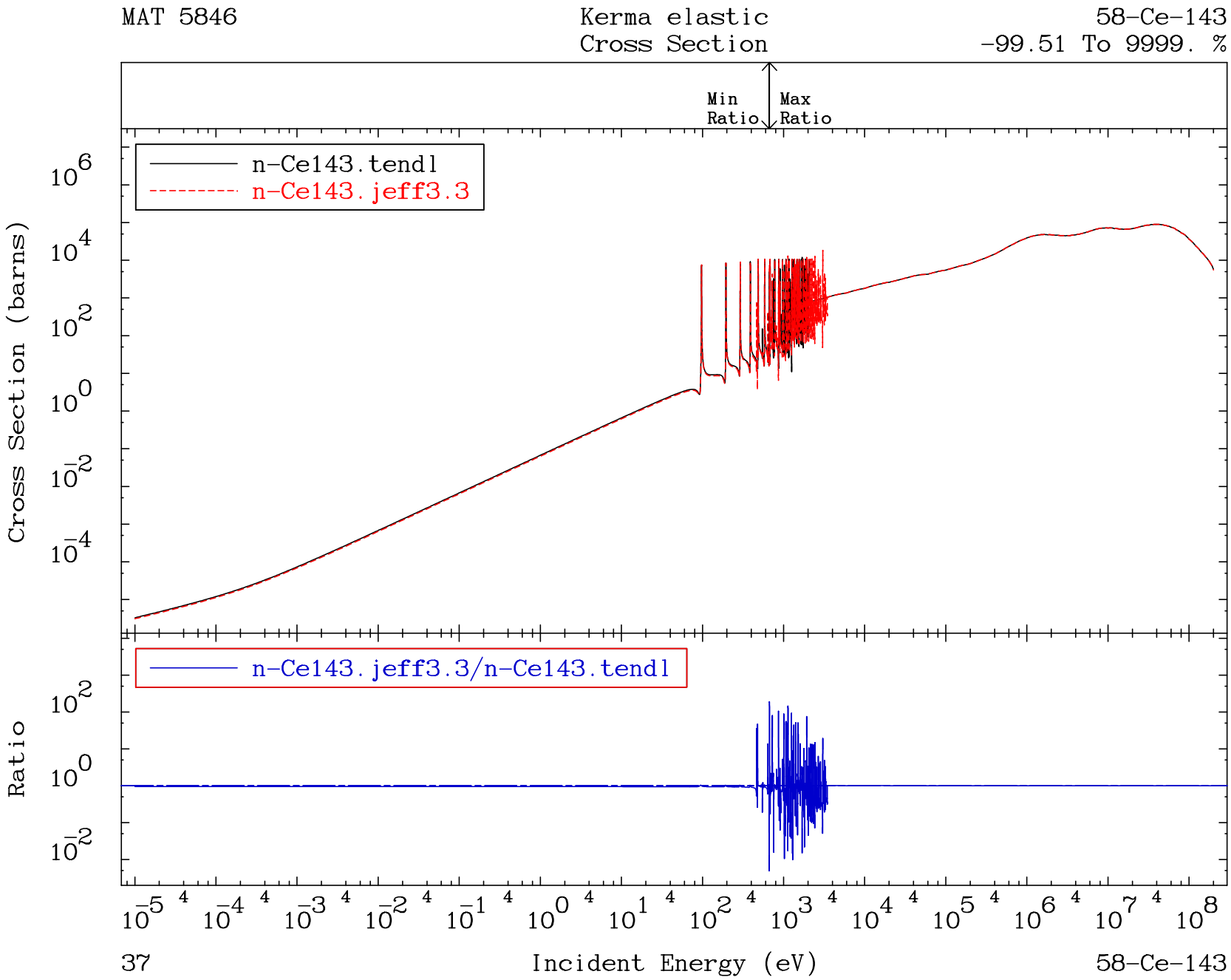

MAT 5846
Deuterium Production
Cross Section
58-Ce-143
-0.002 To 27.16 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 6.2529 MeV
n-Ce143.jeff3.3 Threshold 6.2529 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.3
1.2
1.1
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
58-Ce-143

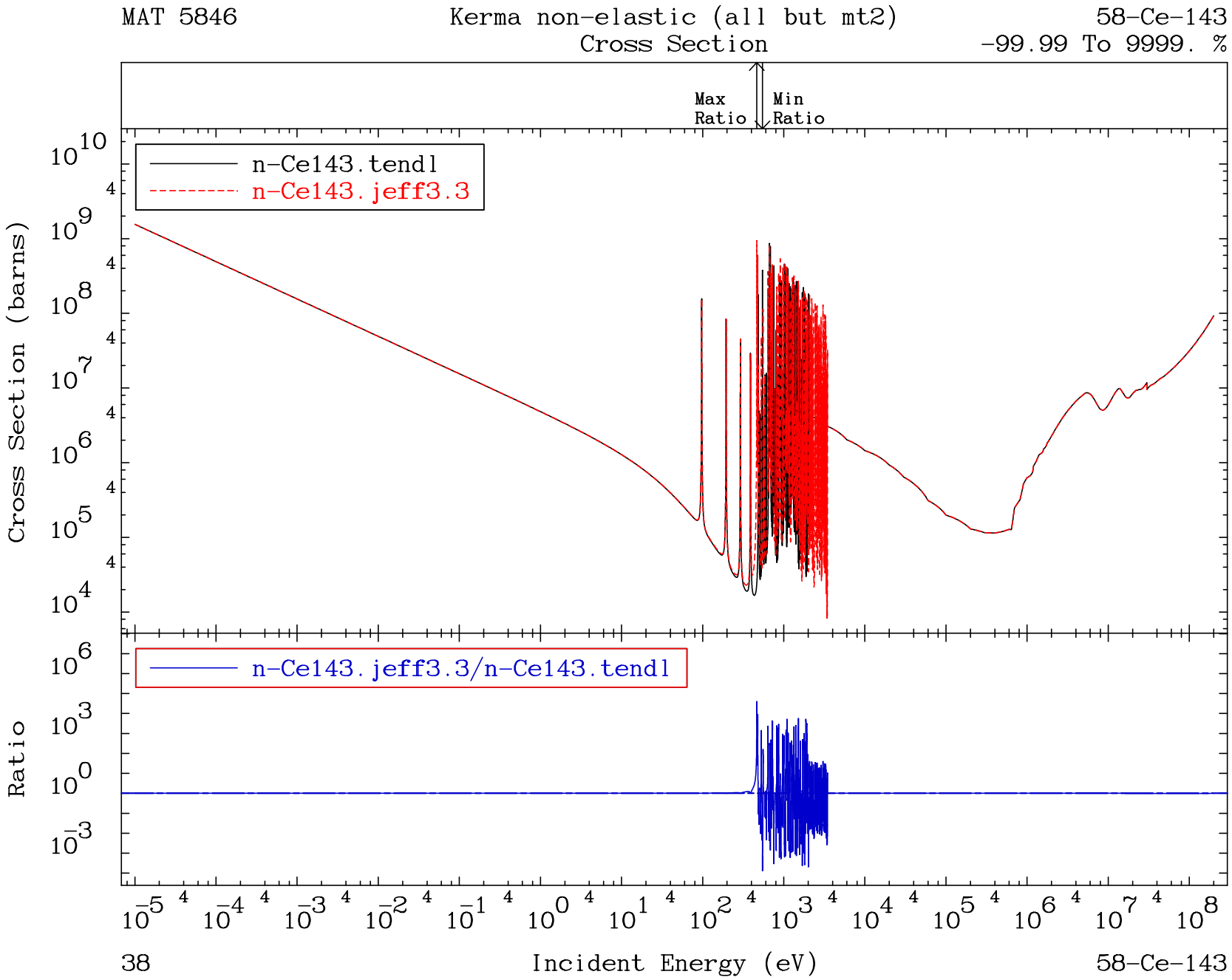

MAT 5846
Tritium Production
Cross Section
58-Ce-143
0.028 To 55.34 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 5.5927 MeV
n-Ce143.jeff3.3 Threshold 5.5893 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.6
1.4
1.2
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
58-Ce-143

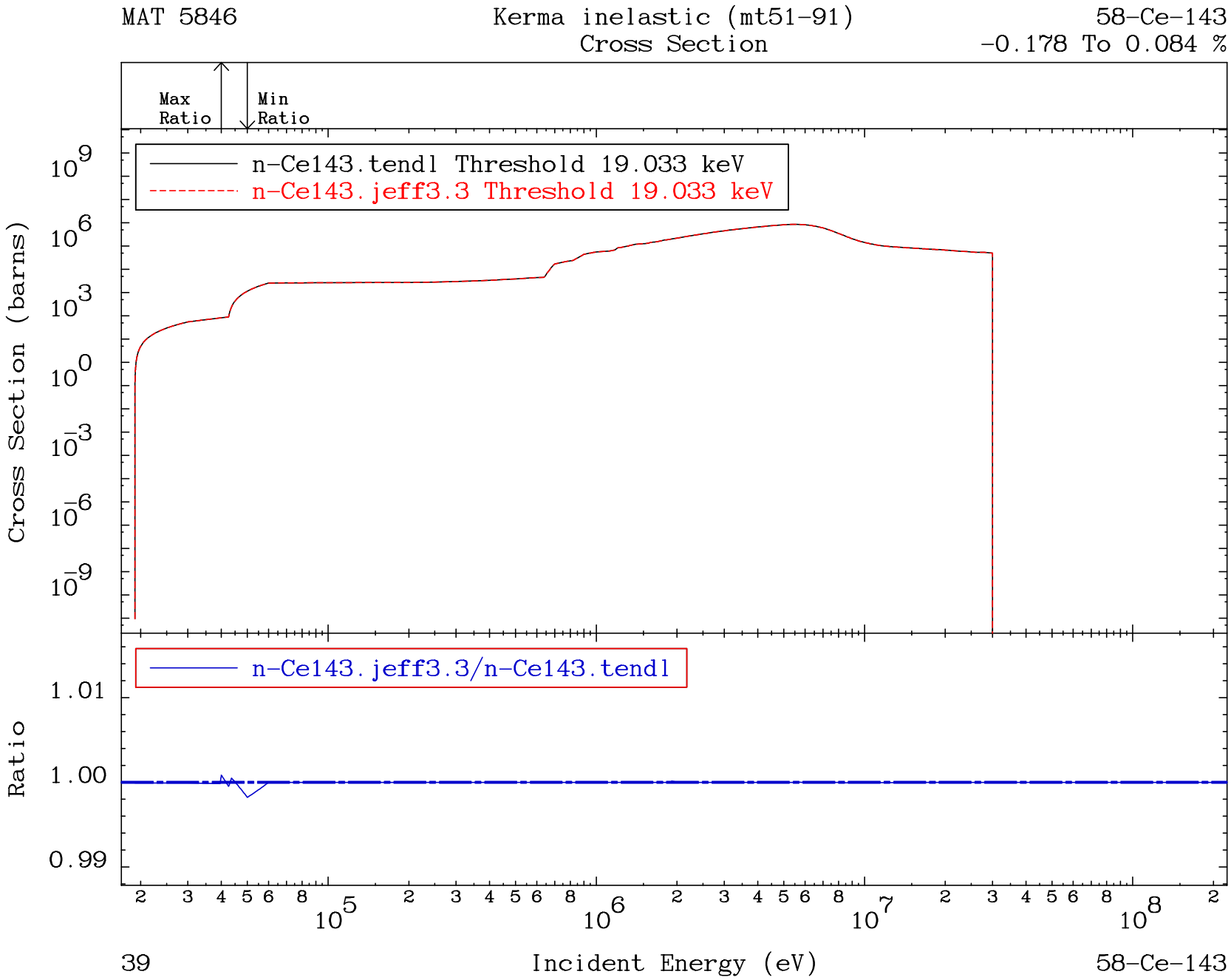

MAT 5846
He-3 Production
Cross Section
58-Ce-143
-0.714 To 1.676 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 8.7956 MeV
n-Ce143.jeff3.3 Threshold 8.5730 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.02
1.01
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
58-Ce-143

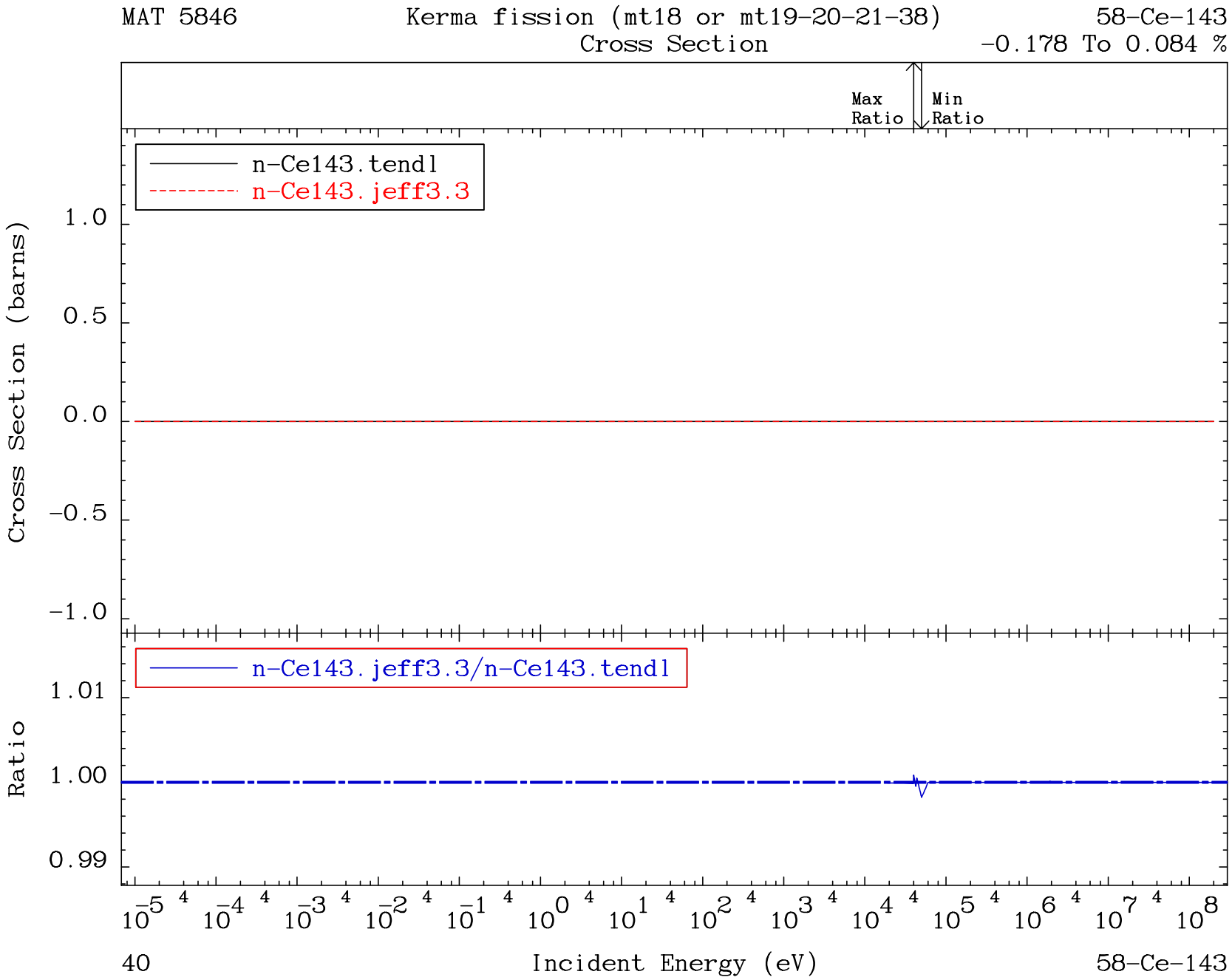

MAT 5846
He-4 Production
Cross Section
58-Ce-143
-8.813 To 3022. %
Max
Ratio
Min
Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
35
58-Ce-143

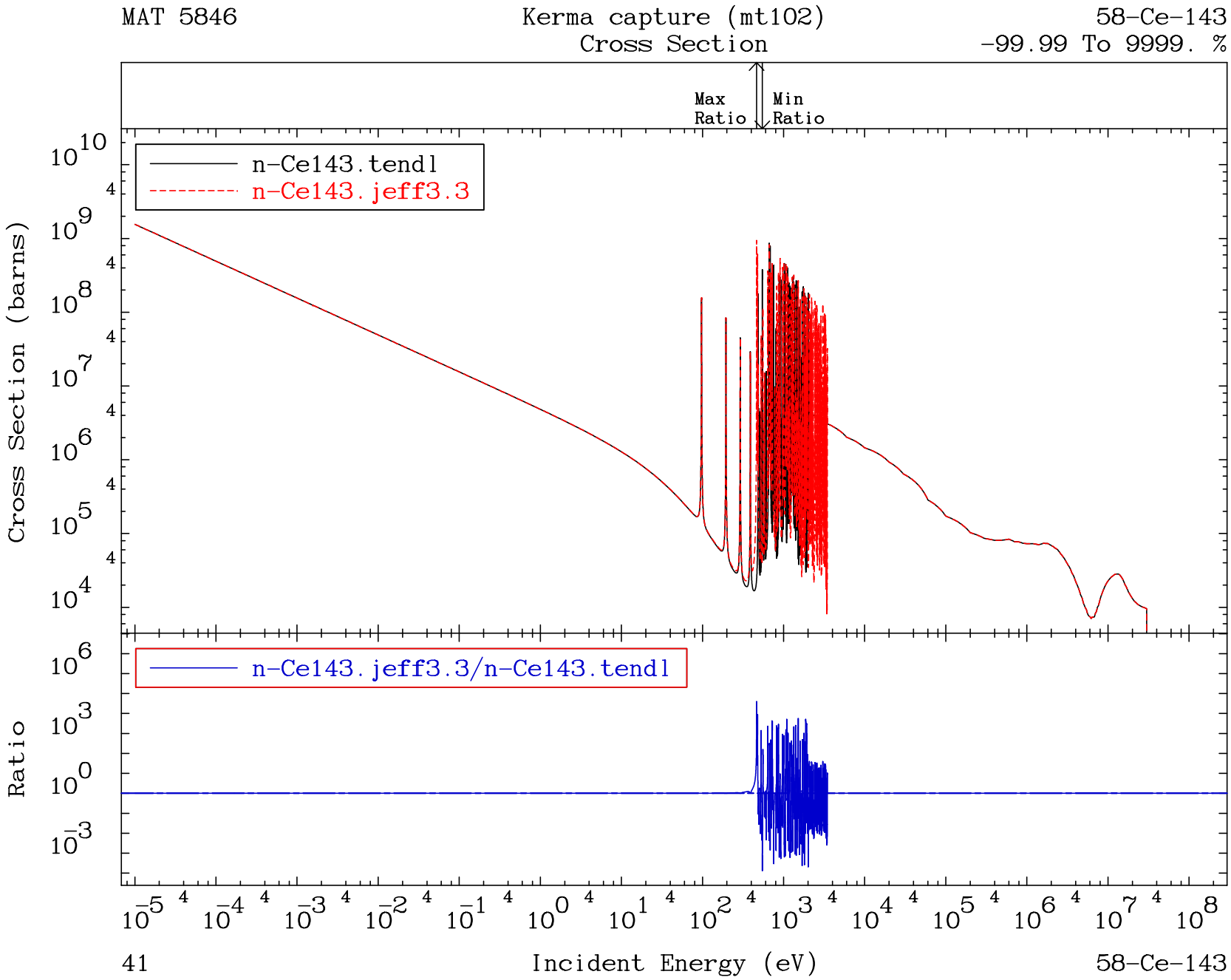

MAT 5846
Kerma total (eV-barns)
Cross Section
58-Ce-143
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
36
Incident Energy (eV)
58-Ce-143

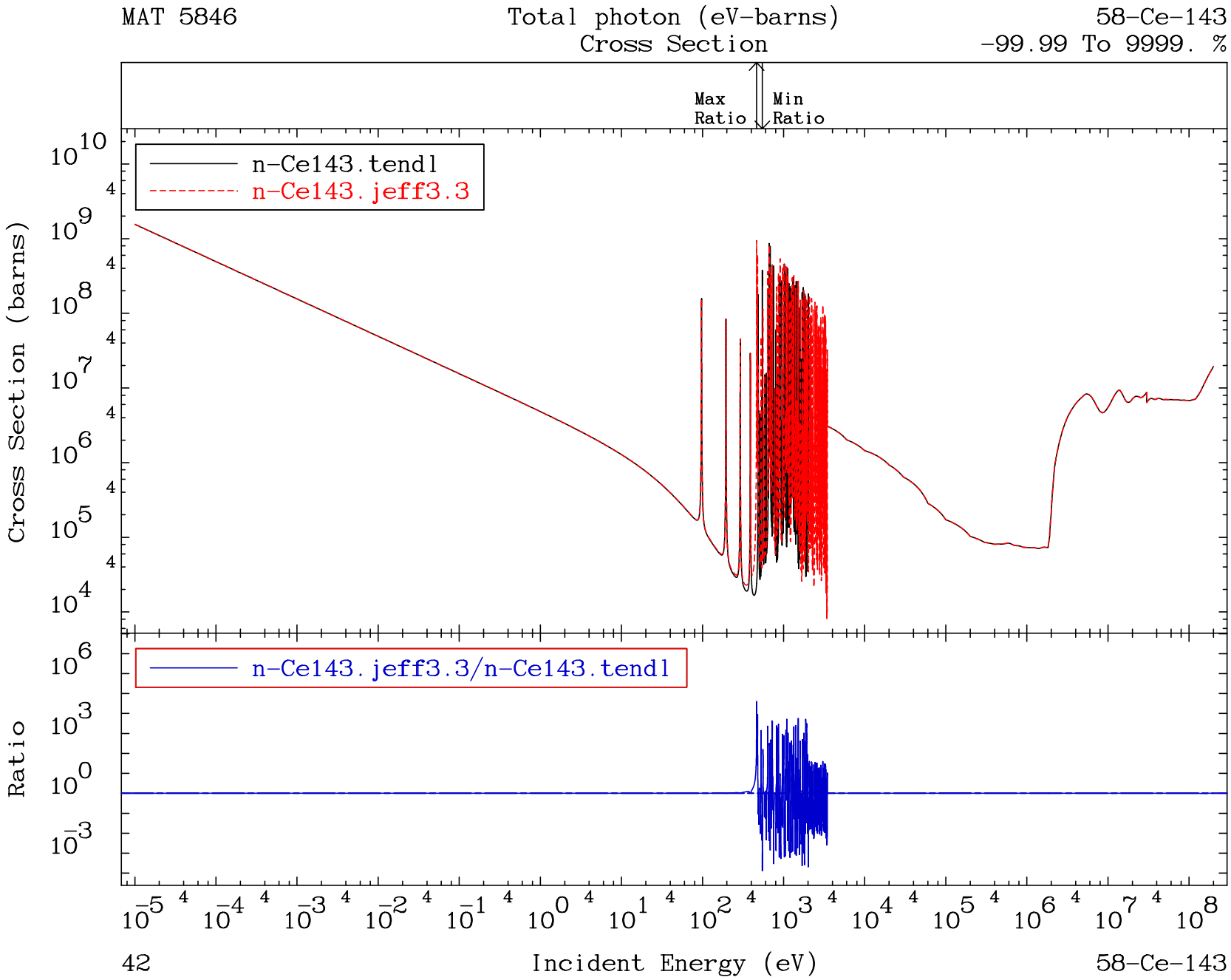

MAT 5846
Kerma elastic
Cross Section
58-Ce-143
-99.51 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
37
58-Ce-143

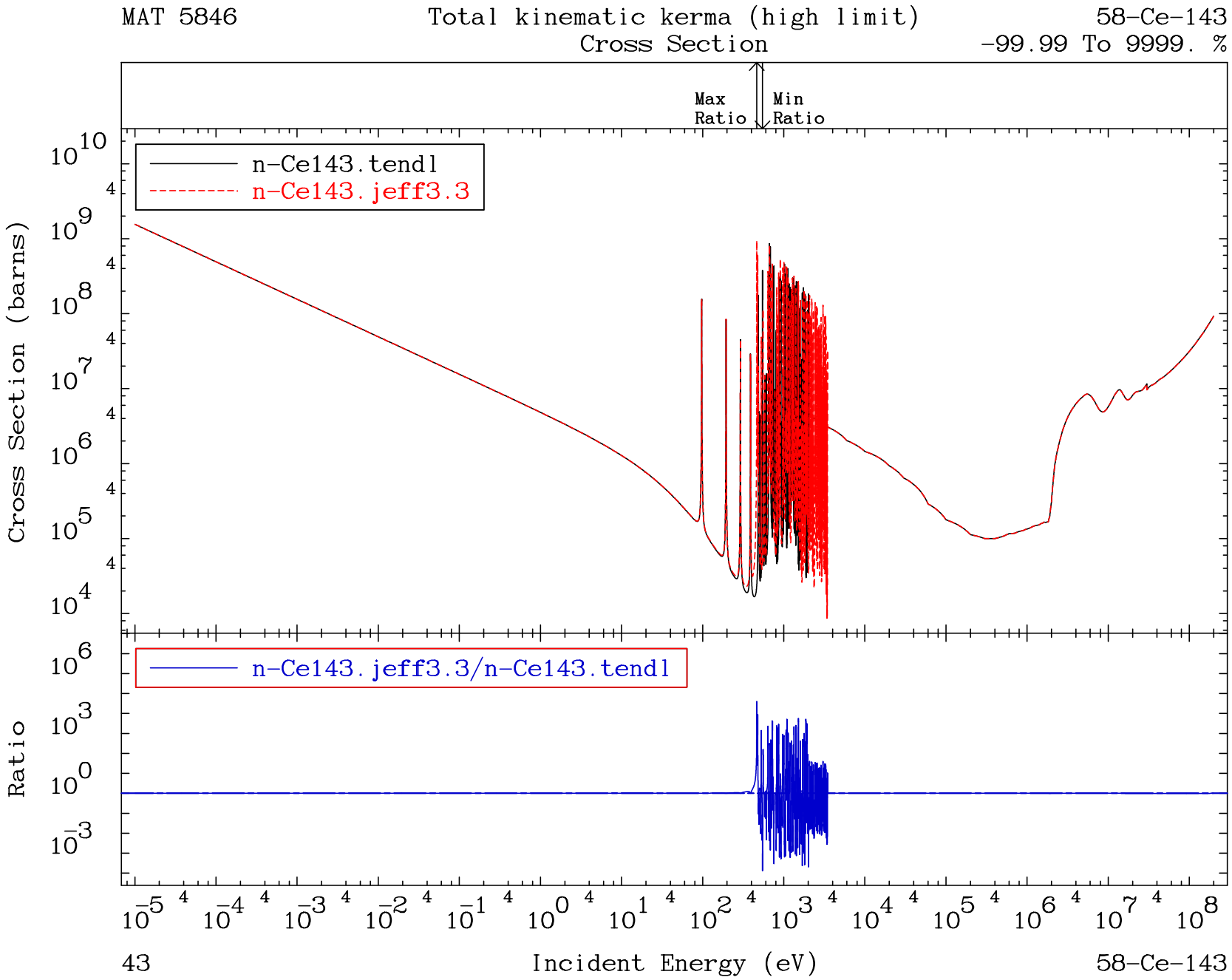

MAT 5846
Kerma non-elastic (all but mt2)
Cross Section
58-Ce-143
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
38
Incident Energy (eV)
58-Ce-143

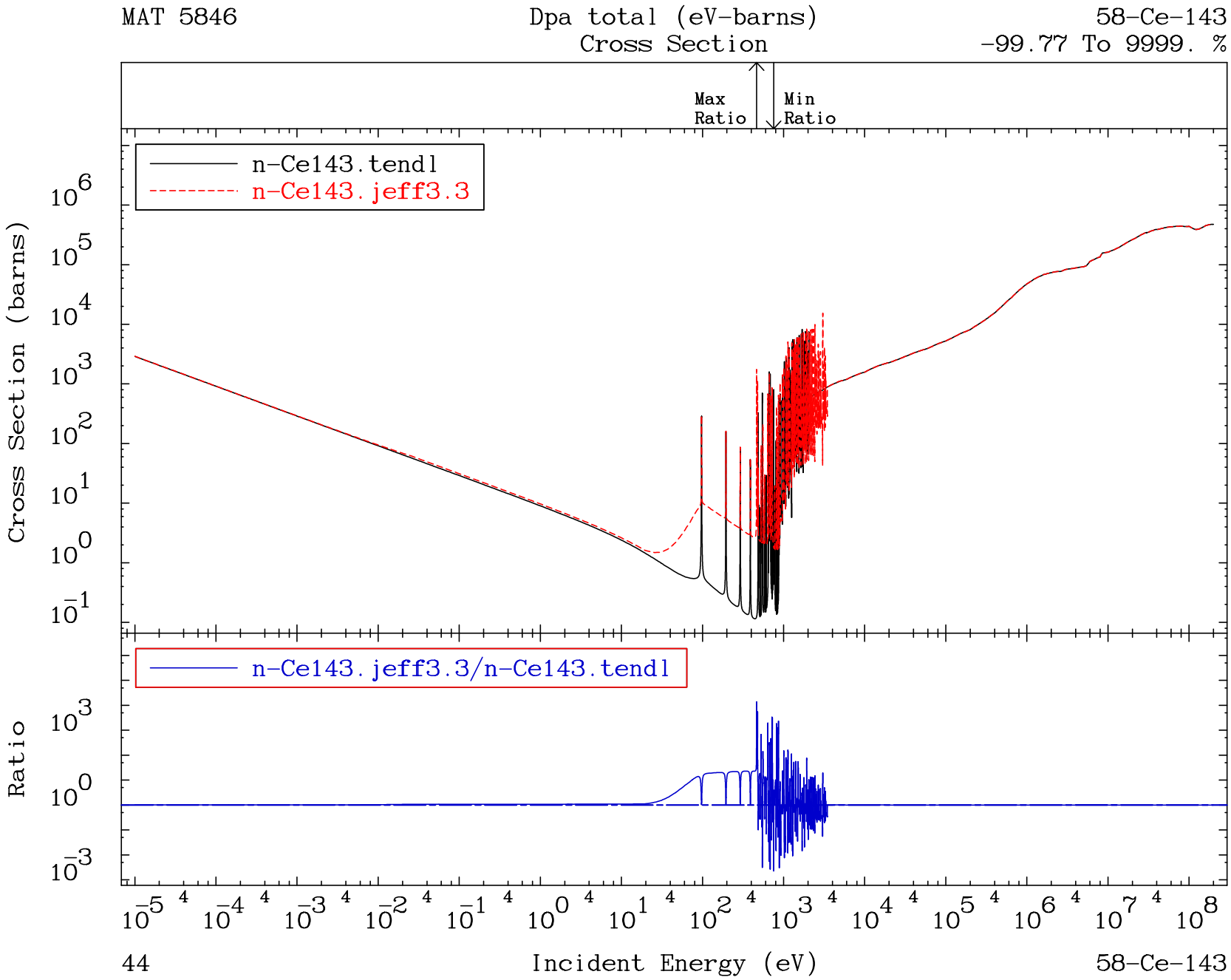

MAT 5846
Kerma inelastic (mt51-91)
Cross Section
58-Ce-143
-0.178 To 0.084 %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 19.033 keV
n-Ce143.jeff3.3 Threshold 19.033 keV
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
39
58-Ce-143

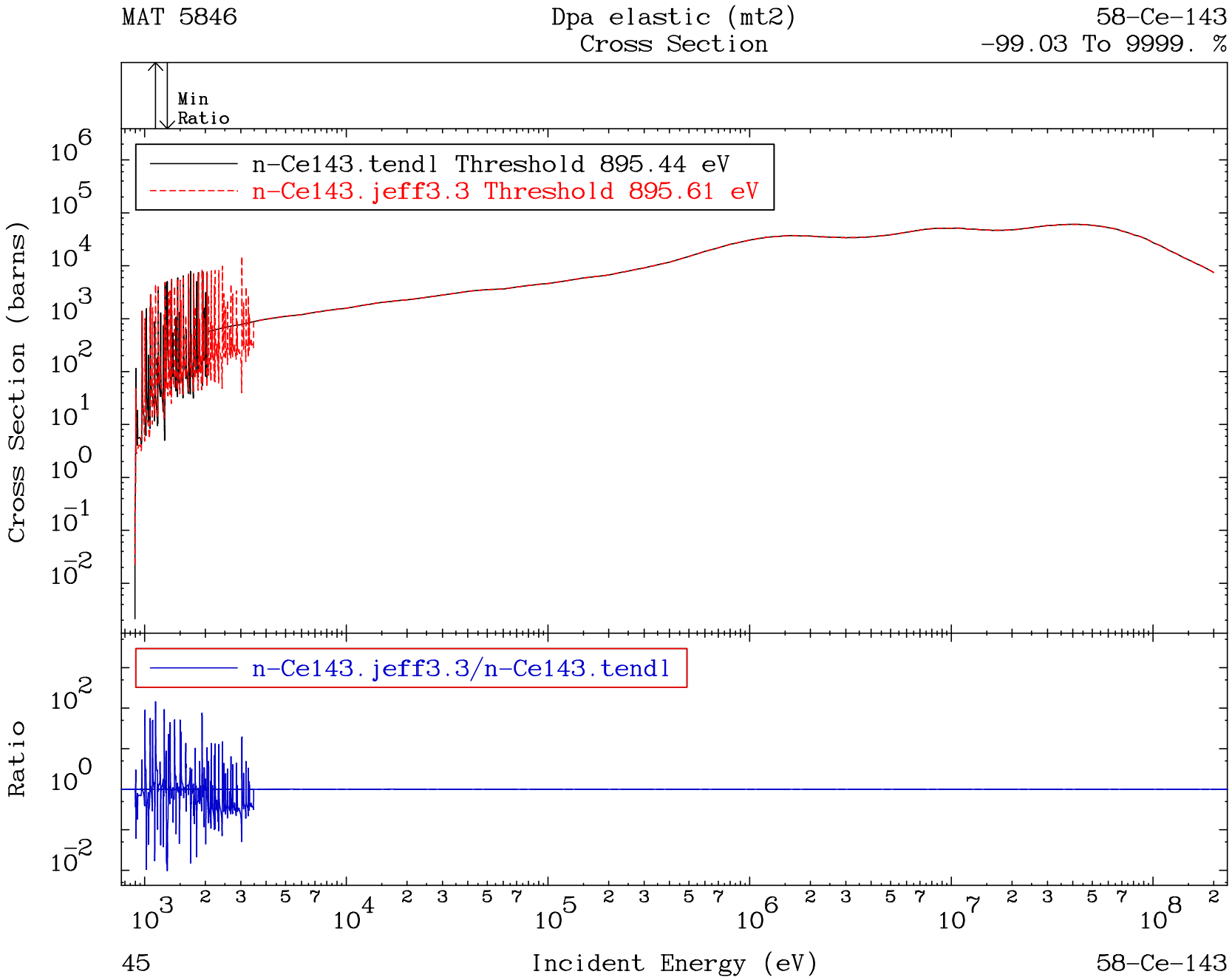

MAT 5846
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
58-Ce-143
-0.178 To 0.084 %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
1.01
1.00
0.99
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
40
Incident Energy (eV)
58-Ce-143

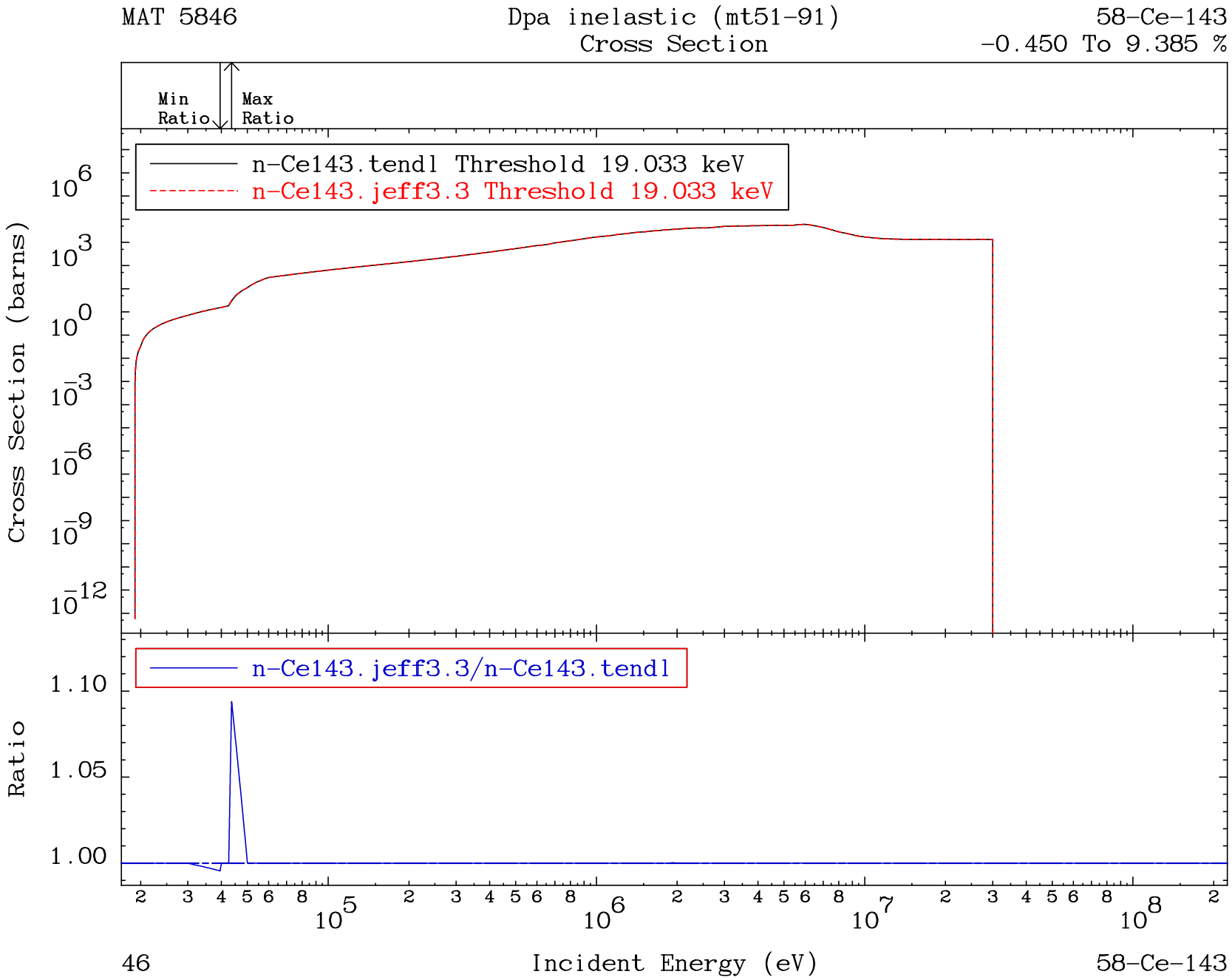

MAT 5846
Kerma capture (mt102)
Cross Section
58-Ce-143
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
41
58-Ce-143

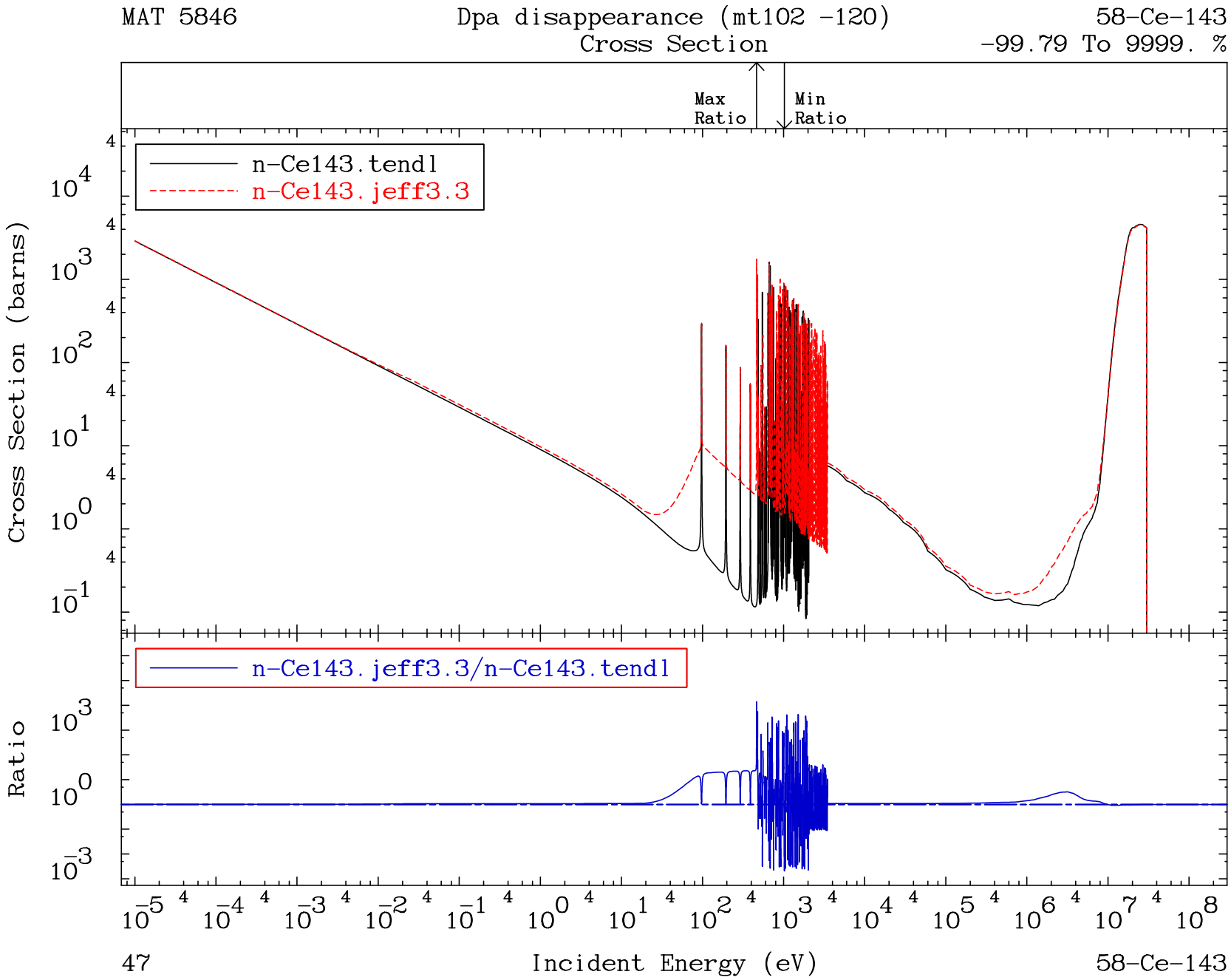

MAT 5846
Total photon (eV-barns)
Cross Section
58-Ce-143
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
42
58-Ce-143

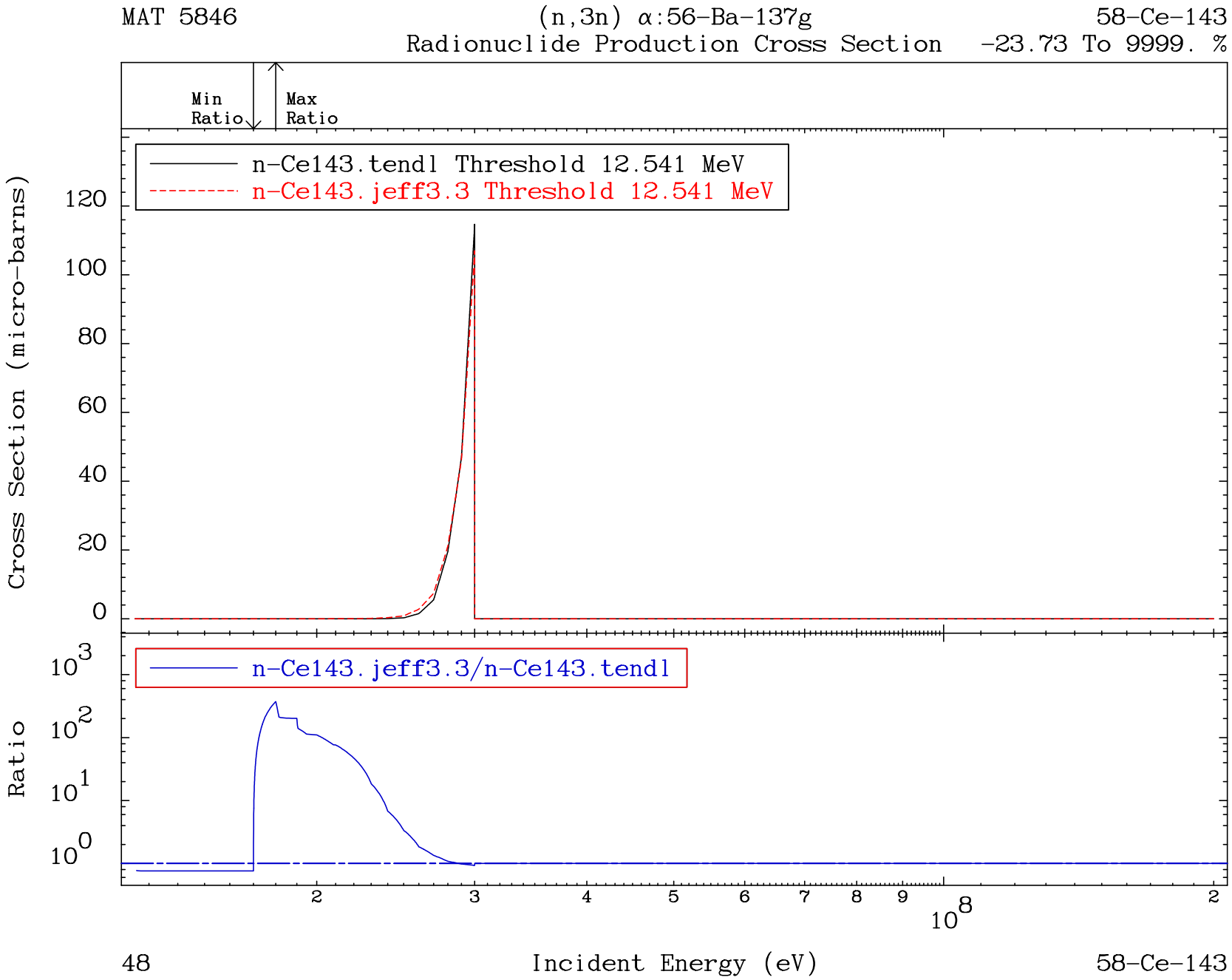

MAT 5846
Total kinematic kerma (high limit)
Cross Section
58-Ce-143
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
43
58-Ce-143

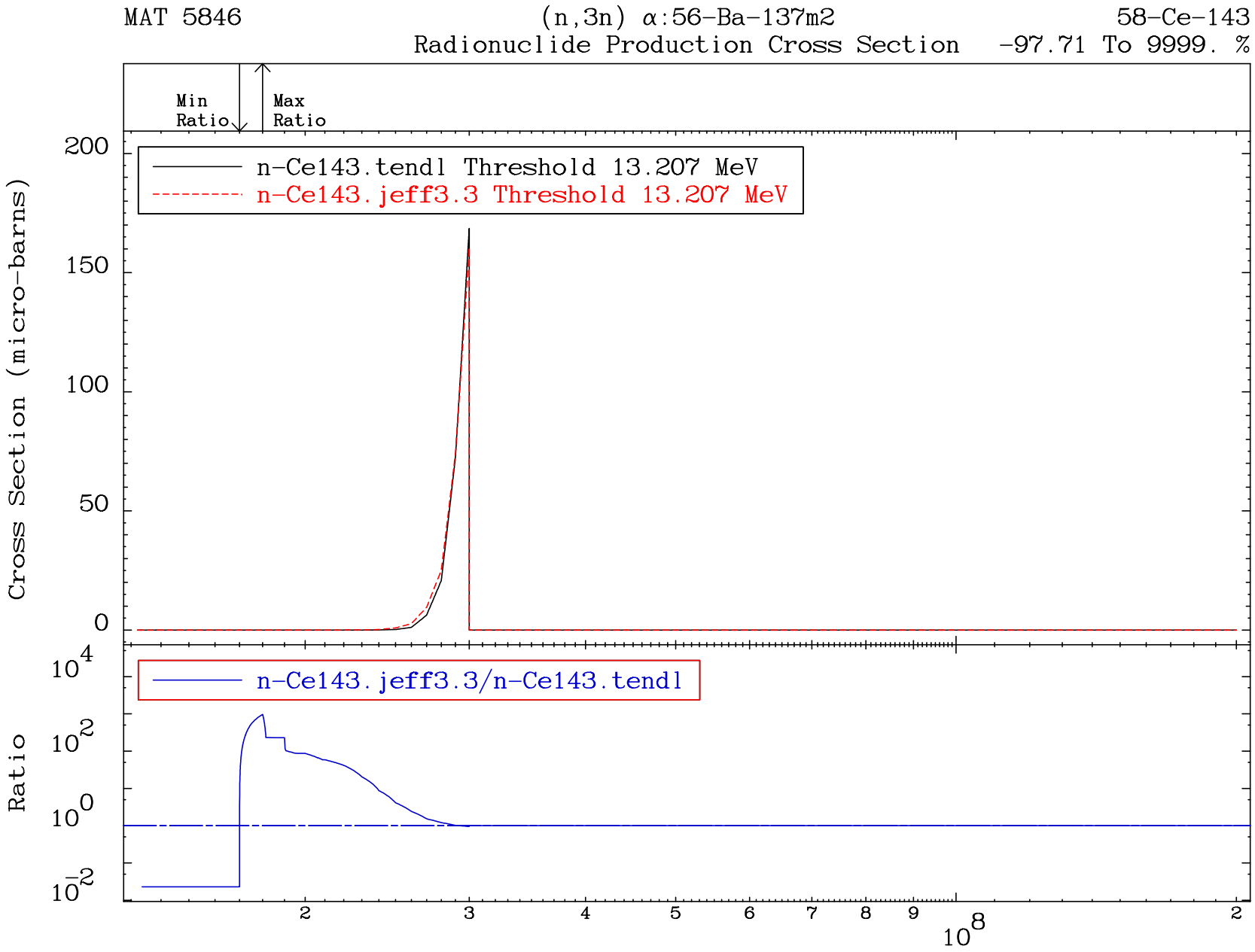

MAT 5846
Dpa total (eV-barns)
Cross Section
58-Ce-143
-99.77 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
44
58-Ce-143

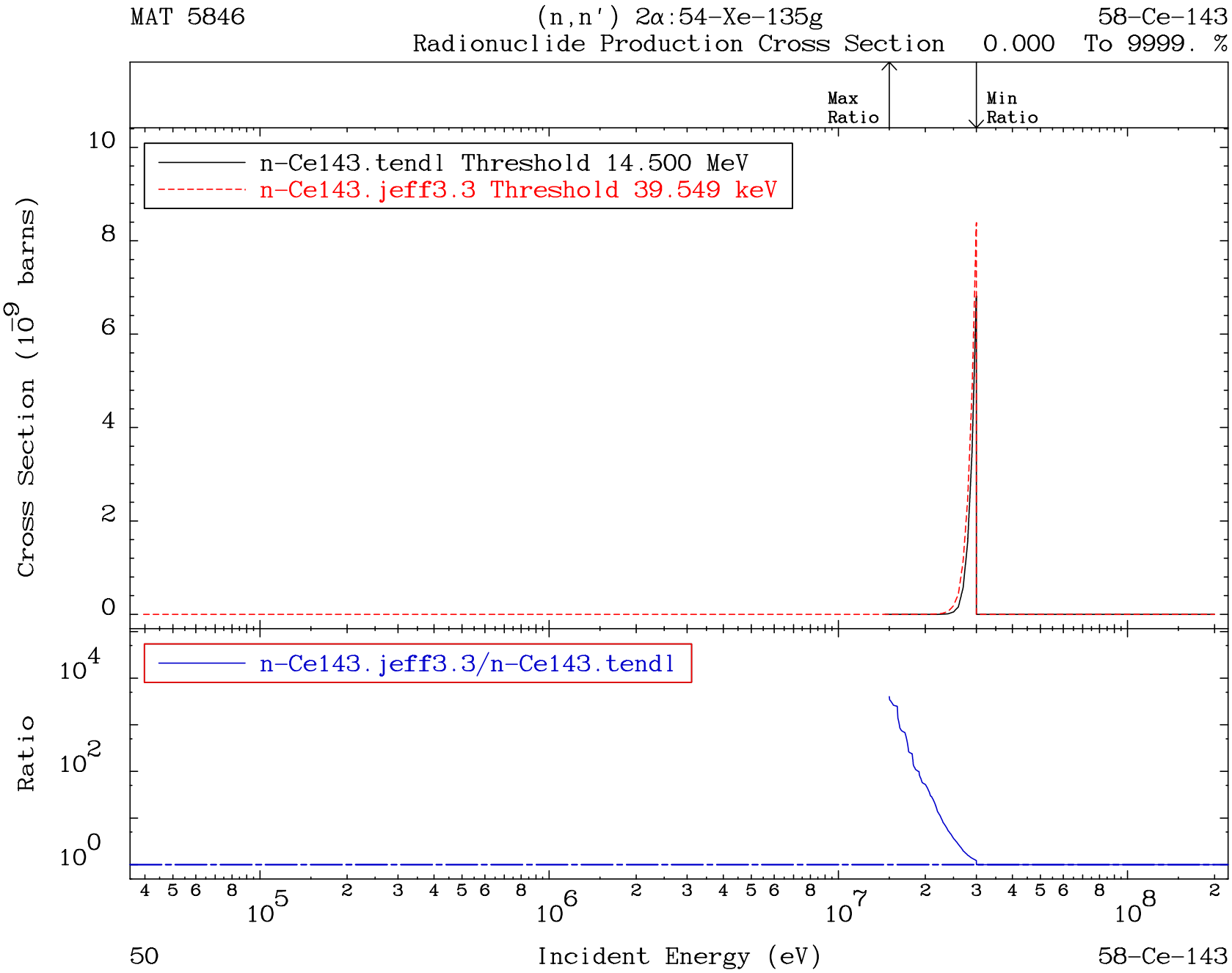

MAT 5846
Dpa elastic (mt2)
Cross Section
58-Ce-143
-99.03 To 9999. %
Min
Ratio
n-Ce143.tendl Threshold 895.44 eV
n-Ce143.jeff3.3 Threshold 895.61 eV
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
45
58-Ce-143

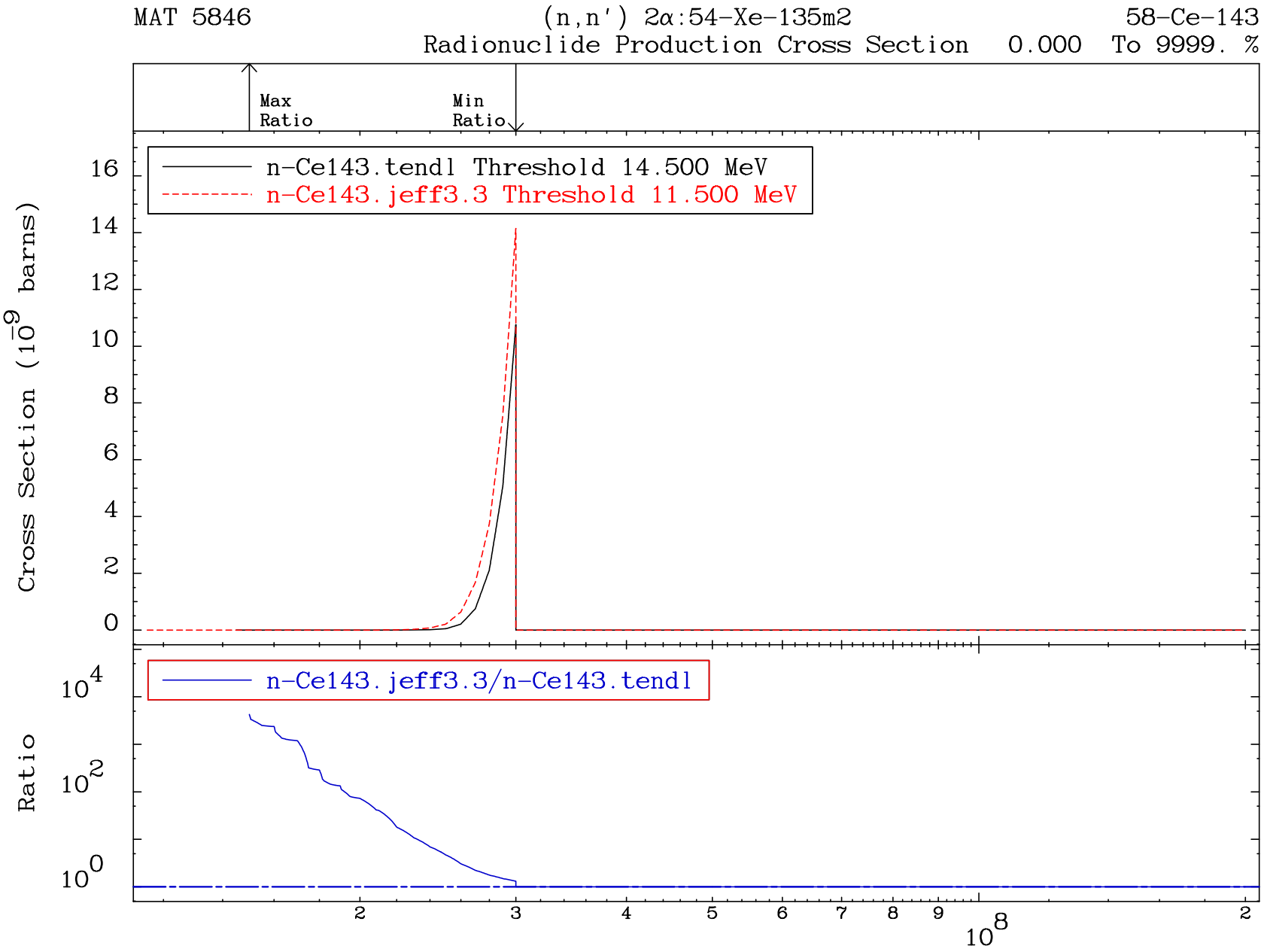

MAT 5846
Dpa inelastic (mt51-91)
Cross Section
58-Ce-143
-0.450 To 9.385 %
Min Ratio
Max Ratio
n-Ce143.tendl Threshold 19.033 keV
n-Ce143.jeff3.3 Threshold 19.033 keV
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
46
58-Ce-143

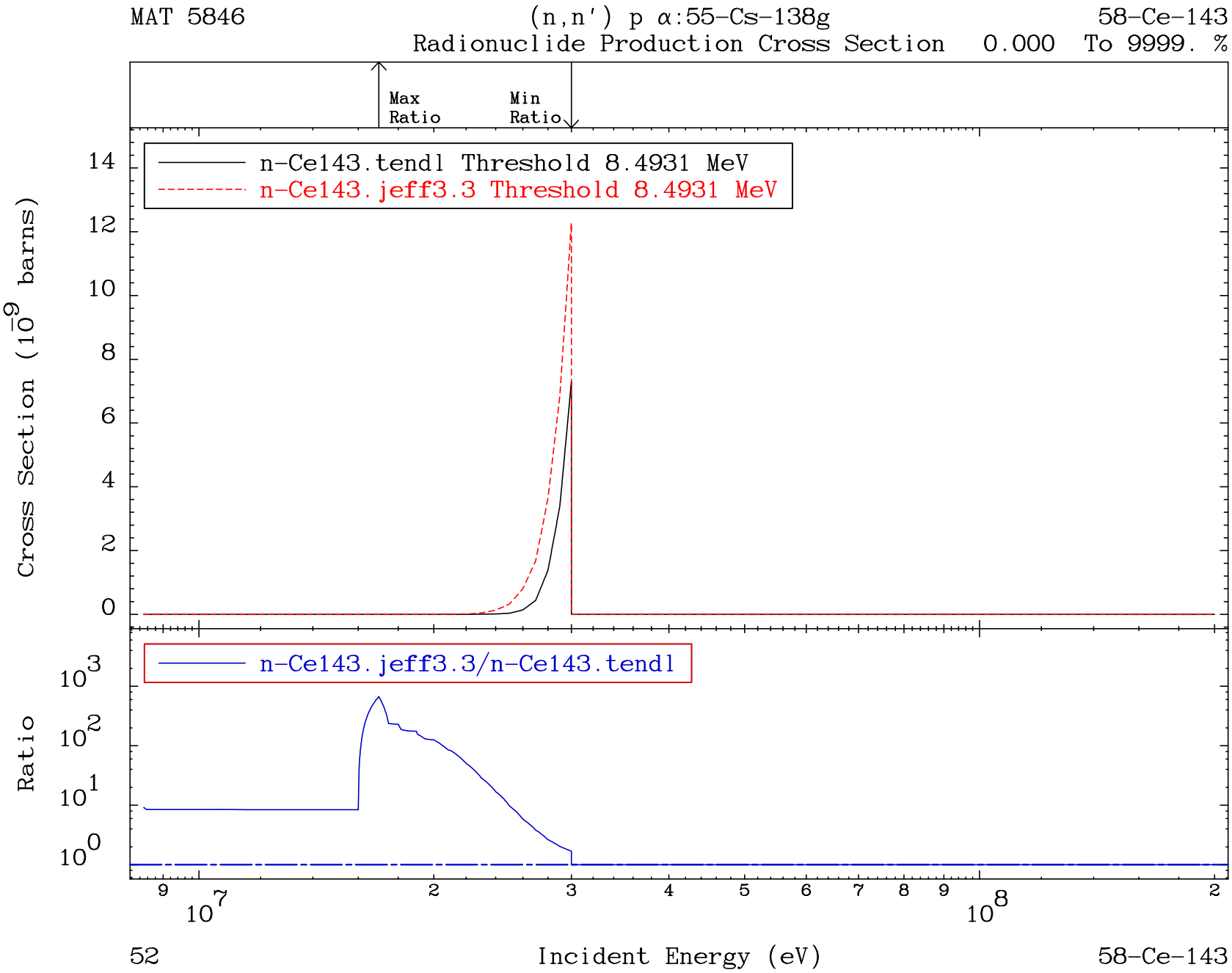

MAT 5846
Dpa disappearance (mt102 -120)
Cross Section
58-Ce-143
-99.79 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl
n-Ce143.jeff3.3
Cross Section (barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
47
58-Ce-143

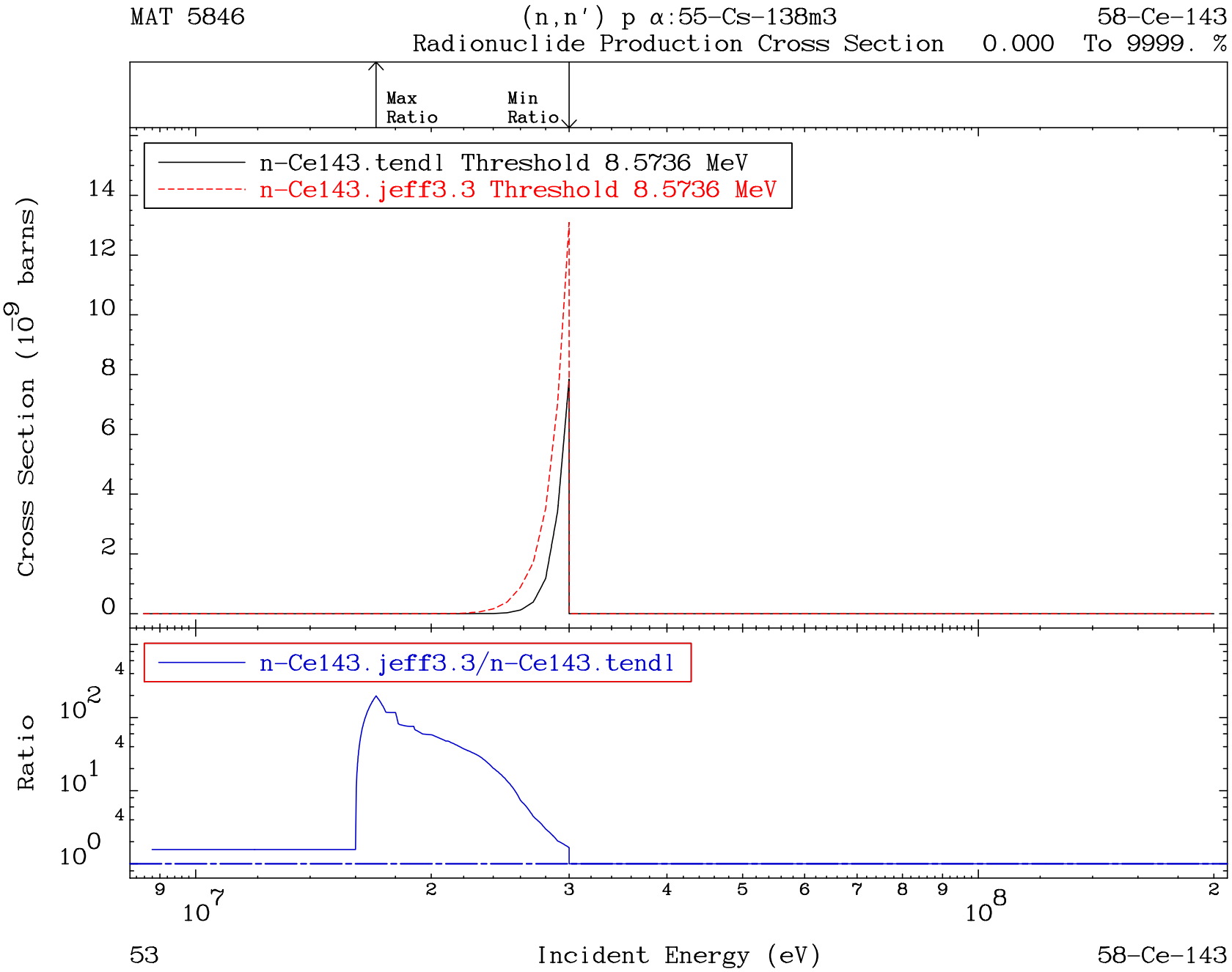

MAT 5846
(n,3n) α:56-Ba-137g
58-Ce-143
Radionuclide Production Cross Section -23.73 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl Threshold 12.541 MeV
n-Ce143.jeff3.3 Threshold 12.541 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
58-Ce-143

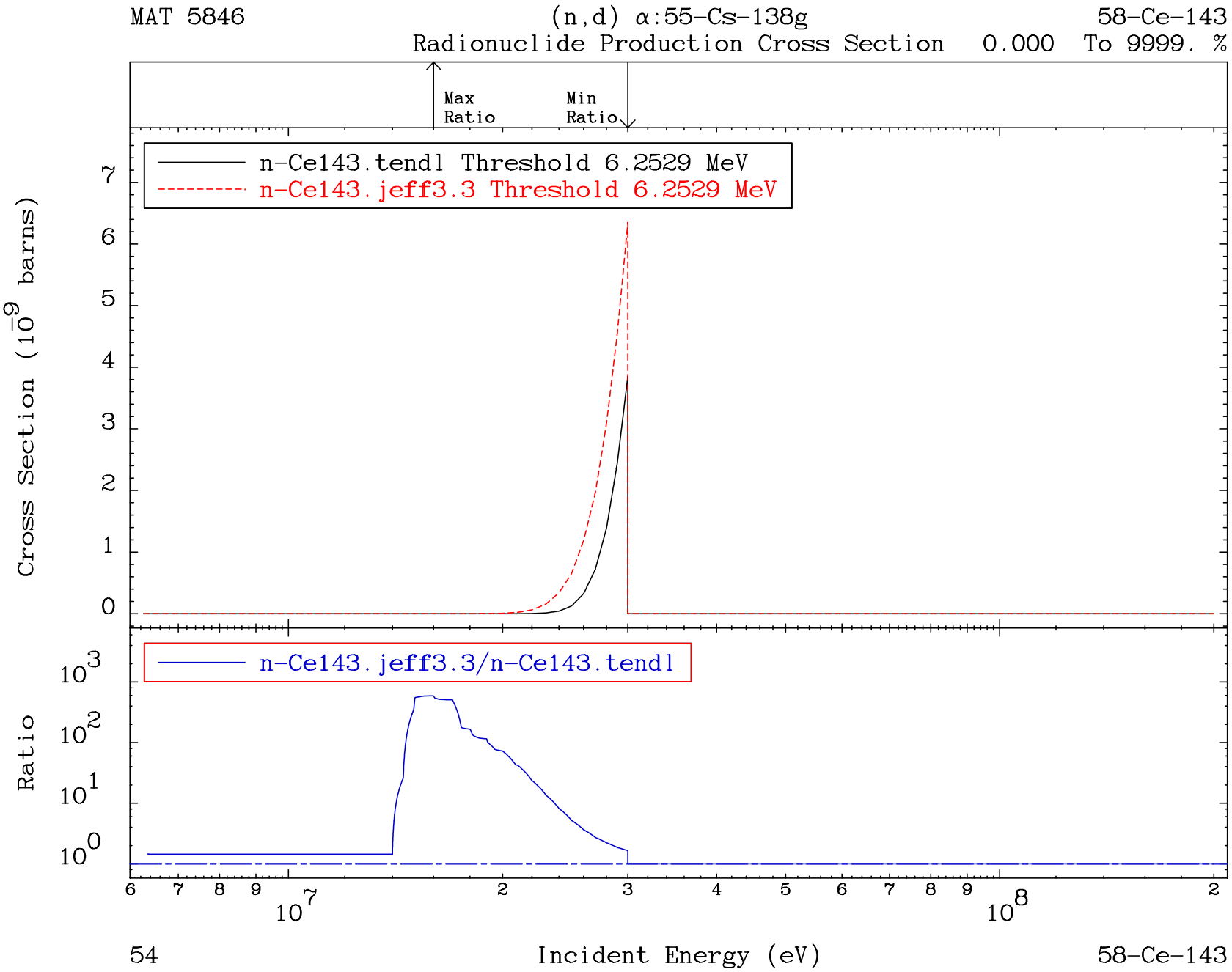

MAT 5846
(n,3n) α:56-Ba-137m2
58-Ce-143
Radionuclide Production Cross Section -97.71 To 9999. %
Min Ratio
Max Ratio
n-Ce143.tendl Threshold 13.207 MeV
n-Ce143.jeff3.3 Threshold 13.207 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^4
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
58-Ce-143

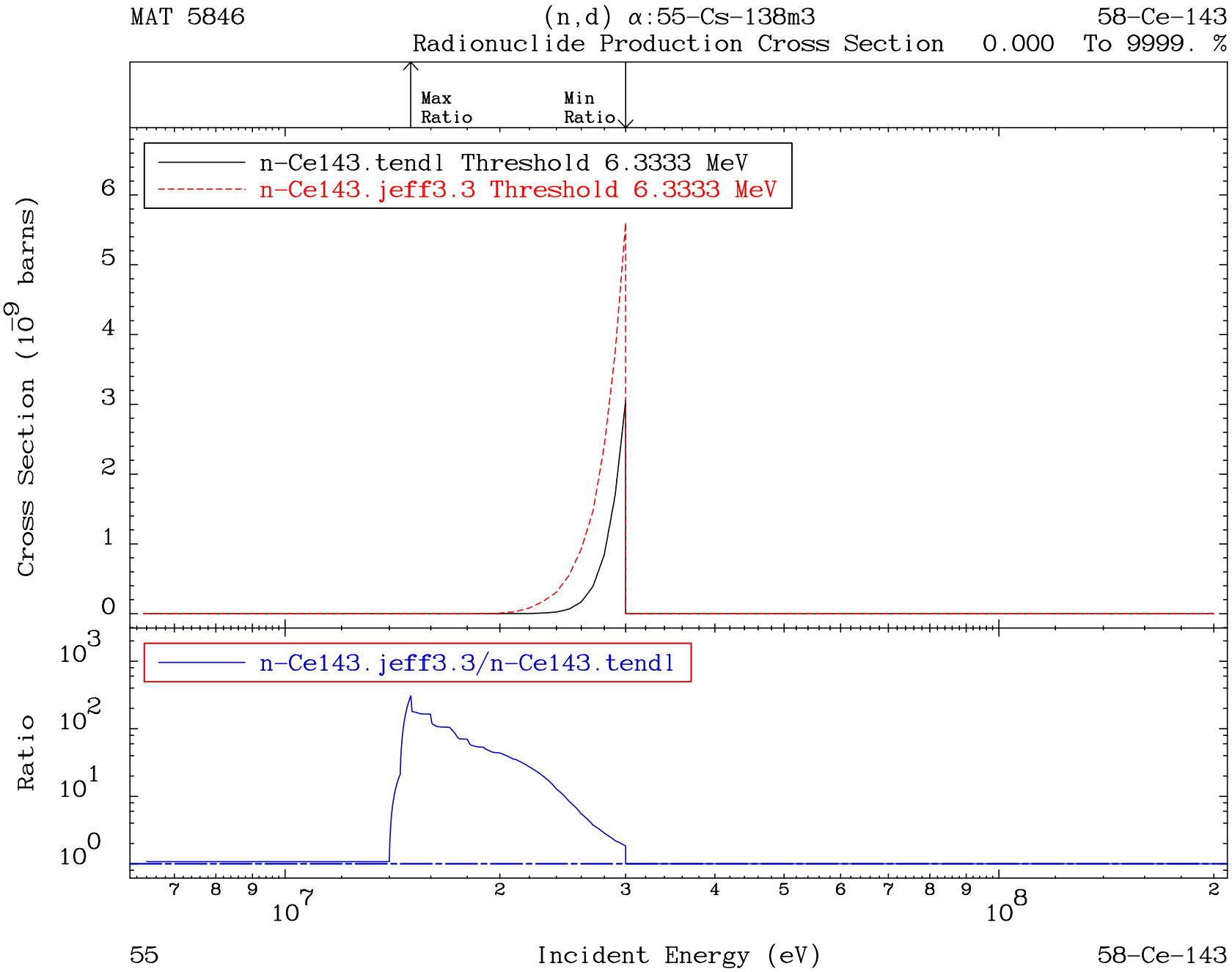

MAT 5846
(n,n') 2α:54-Xe-135g
58-Ce-143
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 14.500 MeV
n-Ce143.jeff3.3 Threshold 39.549 keV
Cross Section (10^{-9} barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
50
58-Ce-143


MAT 5846
(n,n') 2α:54-Xe-135m2
58-Ce-143
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 14.500 MeV
n-Ce143.jeff3.3 Threshold 11.500 MeV
Cross Section (10^{-9} barns)
16
14
12
10
8
6
4
2
0
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
58-Ce-143


MAT 5846
(n,n') p α:55-Cs-138g
58-Ce-143
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 8.4931 MeV
n-Ce143.jeff3.3 Threshold 8.4931 MeV
Cross Section (10^{-9} barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
52
58-Ce-143


MAT 5846
(n,n') p α:55-Cs-138m3
58-Ce-143
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 8.5736 MeV
n-Ce143.jeff3.3 Threshold 8.5736 MeV
Cross Section (10^{-9} barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
53
58-Ce-143


MAT 5846
(n,d) α:55-Cs-138g
58-Ce-143
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 6.2529 MeV
n-Ce143.jeff3.3 Threshold 6.2529 MeV
Cross Section (10^{-9} barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
54
58-Ce-143


MAT 5846
(n,d) α:55-Cs-138m3
58-Ce-143
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Ce143.tendl Threshold 6.3333 MeV
n-Ce143.jeff3.3 Threshold 6.3333 MeV
Cross Section (10^{-9} barns)
n-Ce143.jeff3.3/n-Ce143.tendl
Ratio
Incident Energy (eV)
55
58-Ce-143